

Kernenergie: 100 Gründe und 100 gute Antworten, Fortsetzung #4 bis #7

geschrieben von Lüdecke | 3. April 2013

**Nun die Fortsetzung Gründe und Antworten #4 bis #7. Die bisher behandelten Gründe und Antworten #1 bis #3 können Sie hier nachlesen.
Der**

**Originalartikel
findet sich wie
immer unter
KRITIKALITÄT,
insbesondere die
MOTIVATION sollte
gelesen werden.**

#4:

Radioakti

ve

Schlammse

en

Behauptun

g:

Giftschlä

mmme des

Uranbergb

aus

gefährden

Mensch

und

Umwelt.

Die

EWS

behaupten

**Bei einem
Urangehalt**

t von 0,2

Prozent

bleiben

von jeder

Tonne

Uranerz

**998 Kilo
giftiger
Schlamm
zurück,
der in
Senken**

**und
künstlich
en Seen
landet.
Diese
sogenannt**

en

Tailings

enthalten

noch 85

Prozent

der

**Radioakti
vität des
Erzes und
viele
Gifte wie
zum**

Beispiel

Arsen.

Radioakti

ve Stoffe

aus den

Tailings

**verseuche
n Luft
und
Grundwass
er über
Jahrtause**

**nde, ein
Dammbbruch
oder
Erdrutsch
hat
katastrop**

hale

Folgen.

Aus dem

SchlammLa

gerbecken

der Atlas

Mine in

Moab

(Utah/USA

) sickern

seit

Jahrzehnt

en

giftige

und

radioakti

ve

Substanze

n ins

Grundwass

er und

von dort

in den

nahe

**gelegenen
Colorado
River,
der 18
Millionen
Menschen**

mit

Trinkwass

er

versorgt.

In

Kasachsta

n

gefährdet

der

radioakti

ve Staub

eines

austrockn

enden

Tailings

die

150.000-

Einwohner

- Stadt

Aktau.

Und die

zahllosen

Uranschla

mmdeponie

n in

engen

kirgisisc

hen

Bergtäler

n bergen

nach

Ansicht

der

Vereinten

Nationen

das

**»Potenzia
l für
eine
internati
onale
Katastrop**

he« .

**„Weiter
führend**

e

**Informa
tionen”**

der EWS

und

„Quelle

n" der

EWS

Ri ch ti

g ist



Neodym

für

Windkraft

-

Generator

en,

Silber

für

Solarzelle

en –

Teilings

sind bei

jeder Art

Rohstoff

förderung

ein

Problem,

für das

es

andererseits

ist aber

auch

umweltfreie

undliche

Lösungen

gibt.

Rückstände

e die

auch aus

dem

Wasser

wirksam

abzutrenn

**en sind,
gehören
nach dem
Ausschöpf
en der
Mine auch**

**dorthin
wieder
zurück,
wie es
bei den
meisten**

heutigen

Minen

auch

bereits

praktizie

rt wird.

**Auch eine
Rekultivierung
der
Mienen und
Schlammse
en würde**

den

Stromprei

s nur um

ein paar

Prozent

erhöhen .

Misst man

den

Förderauf

wand für

Uran an

dessen

extrem

hoher

Energiedi

chte, so

kann man

gerade

der

Uranförde

rung eine

sehr gute

Umweltbil

anz

**bescheinigen. Bei
der
gleichen
produzier
ten**

**Energieme
nge ist
beispiels
weise das
Tailing
allein**

für das

für

Solarzellen

en

benötigte

Silber,

selbst

bei 50%

Recycling

, 3 mal

so hoch

wie für

Uran .

Solarzell

enherstel

ler

versprech

en eine

**Verbesserung um
einen
Faktor 10
für die
Zukunft,**

**für die
Urannutzu
ng kann
man
hingegen
schon**

**heute in
Schnellsp
altreakto
ren einen
Faktor
100 - 200**

**Verbesserung
erreichen**

▪

**Nicht nur
die**

**Mengen ,
auch die
Radiotoxizität der
Uran -
Schlammse**

en ist

sehr

gering.

Die TU

Bergakade

mie

Freiberg

hat das

Kadjj-

Sai-

Tailing

in

**Kirgistan
vermessen
und kam
zu dem
Ergebnis,
dass die**

Aktivität

an der

Oberfläch

e

vernachlä

ssigbar

**und in
der Tiefe
nicht
viel
größer
als die**

von

Kohlleasch

e ist.

Die

Tailings

in

**Kirgistan
zeichnen
sich
außerdem
durch
eine**

höchst

ineffizie

nte

Abtrennung

g des

Urans

**aus , 75%
verbliebe
n in den
Teilings ,
entsprech
end höher**

**ist die
Radioakti-
vität.**

Normale

**Uranantai-
lings, wie**

z. B. das

am

Colorado-

River,

haben nur

einen

Bruchteil

dieser

Aktivität

. Die

zuständig

e US-

**Landesbeh
örde hat
im
dortigen
Flusswass
er**

übrigens

nie eine

erhöhte

Radioktiv

ität

nachweise

n können .

Sollte

dieser

ganze

Schlamm

auf

**einmal in
einen
nahgelegte
nen Fluss
gelangen,
wird er**

**noch
weiter
verdünnt
und die
Menschen
haben**

nichts zu
befürchte
n. Man
kann dies
eine
„Schweine

rei”

nennen,

eine

„internat

ionale

Katastrop

he" sieht

aber

wirklich

anders

aus .

Trocknen

**solche
Tailings
wie in
Kasachsta
n aus, so
entsteht**

uranhalti

ger

Staub.

Eine

Gruppe

der UN

hat das

Aktu-

Tailing

genau

vermessen

und kam

**zu dem
Ergebnis,
dass die
Belastung
direkt
über dem**

Uran

nicht

höher ist

als die

natürlich

e in

**einigen
bewohnten
Gegenden
der Erde,
am
Südrand**

**sinkt sie
auf das
natürliche
Niveau
des
Südschwar**

zwałds .

Aktau

liegt

nochmal

10 km

davon

weg.

Nicht

schön,

aber auch

hier

sollte

**man die
Kirche im
Dorf
lassen.
Selbst
Arbeiter,**

**die im
Vergleich
dazu ein
Arbeitsle
ben lang
ein**

**Vielfache
s der
Schwarzwa
ld-
Aktivität
an**

**Uranstaub
einatmet
n,
zeigten
keinerlei
gesundheit**

tlliche

Auffällig

keiten.

Während

die

Radioakti

**vität der
Uran -
Schlammse
en sehr
gering
und**

**„Verseuch
ungsszena
rien“**

rein

**hypotheti
sch sind,**

**ist die
Umweltver
schmutzun
g durch
Biomasse
harte**

Realität,

hier

schlagen

Behälter

regelmäßig

g Leck.

Im Sommer

2010

verwandelt

te sich

der

Kallinger

**Bach im
Landkreis
Erding
kilometer
lang in
totes**

**Gewässer
– kein
Einzelfal
l,
sondern
traurige**

monatlich

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Routine.

NABU

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Gülle-

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Unsere Quellen

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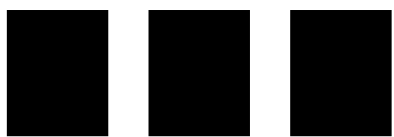
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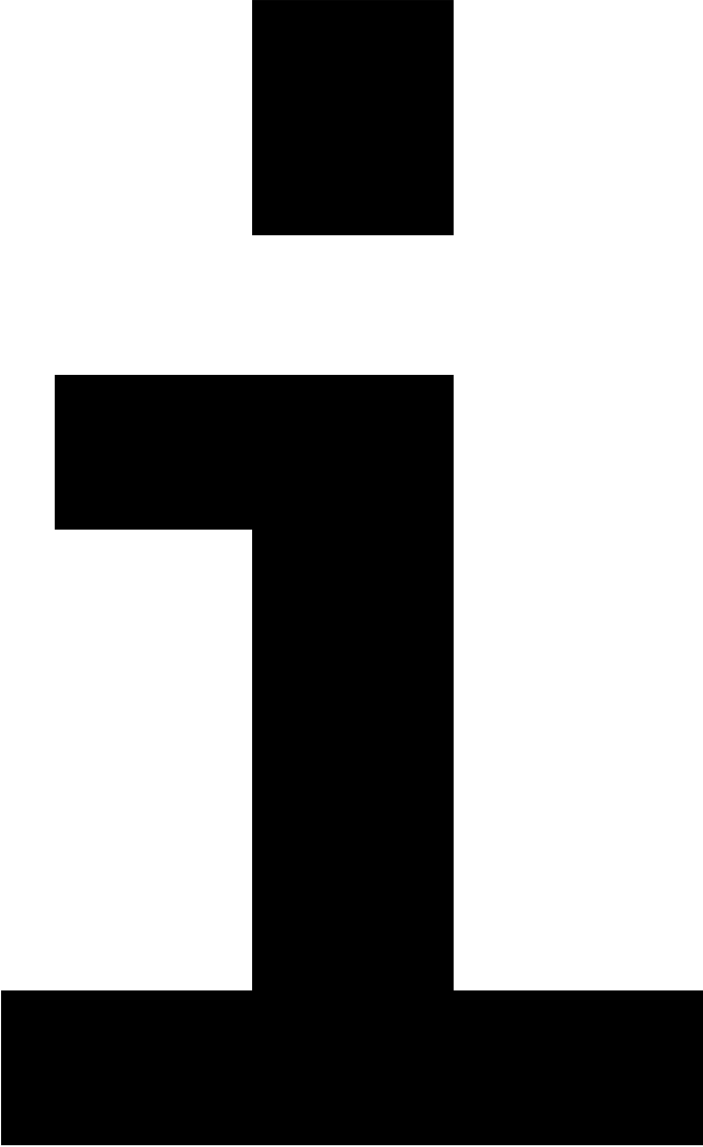
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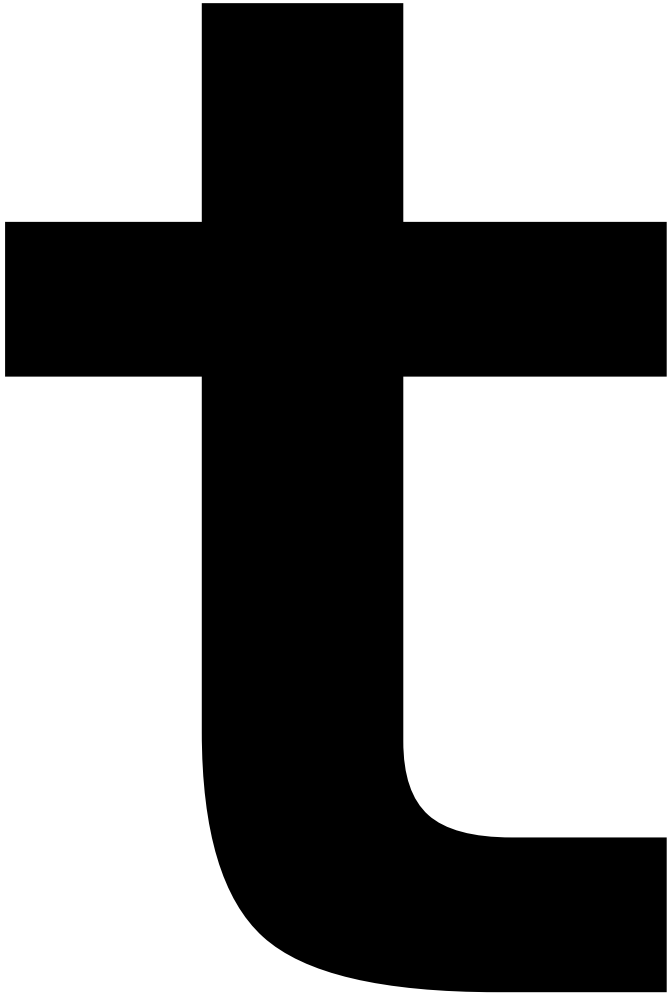
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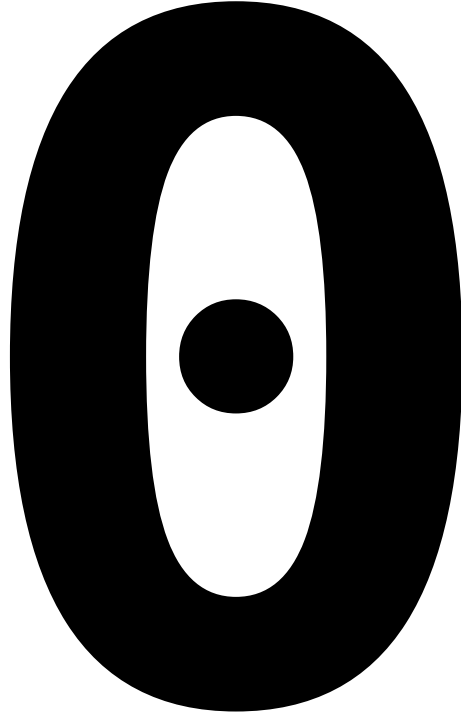
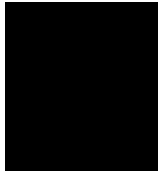
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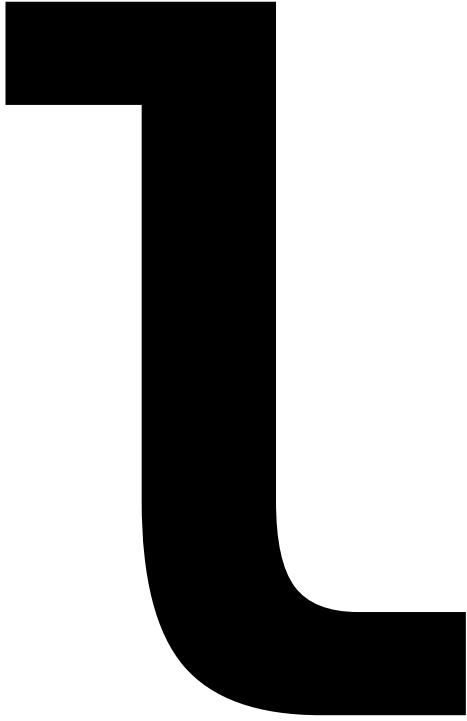
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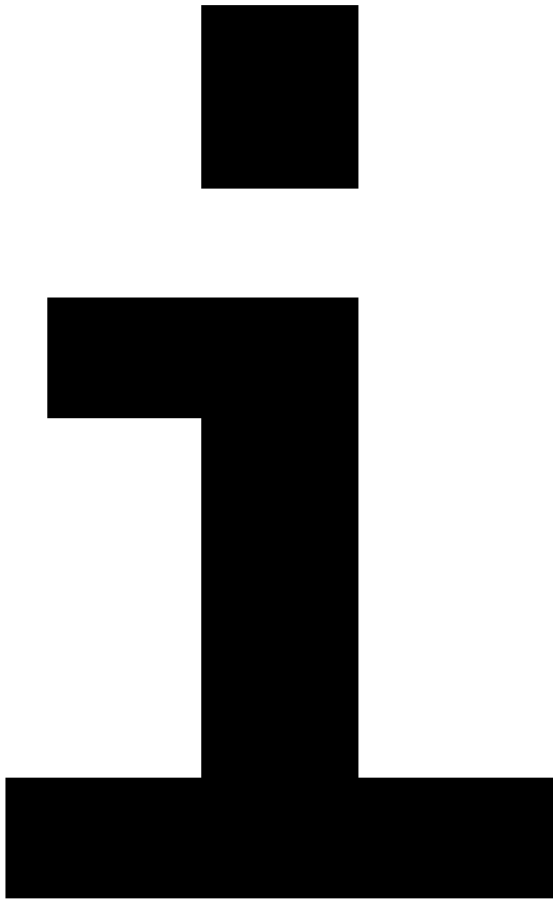
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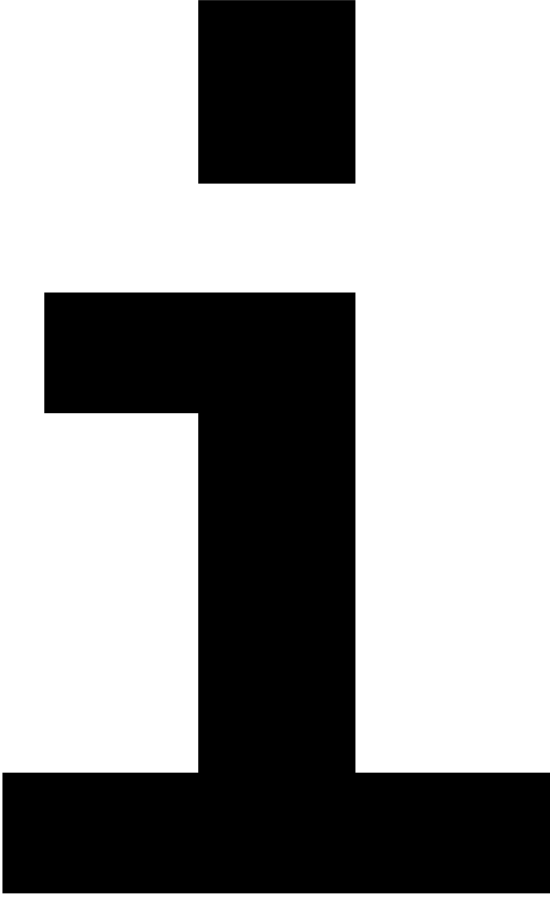
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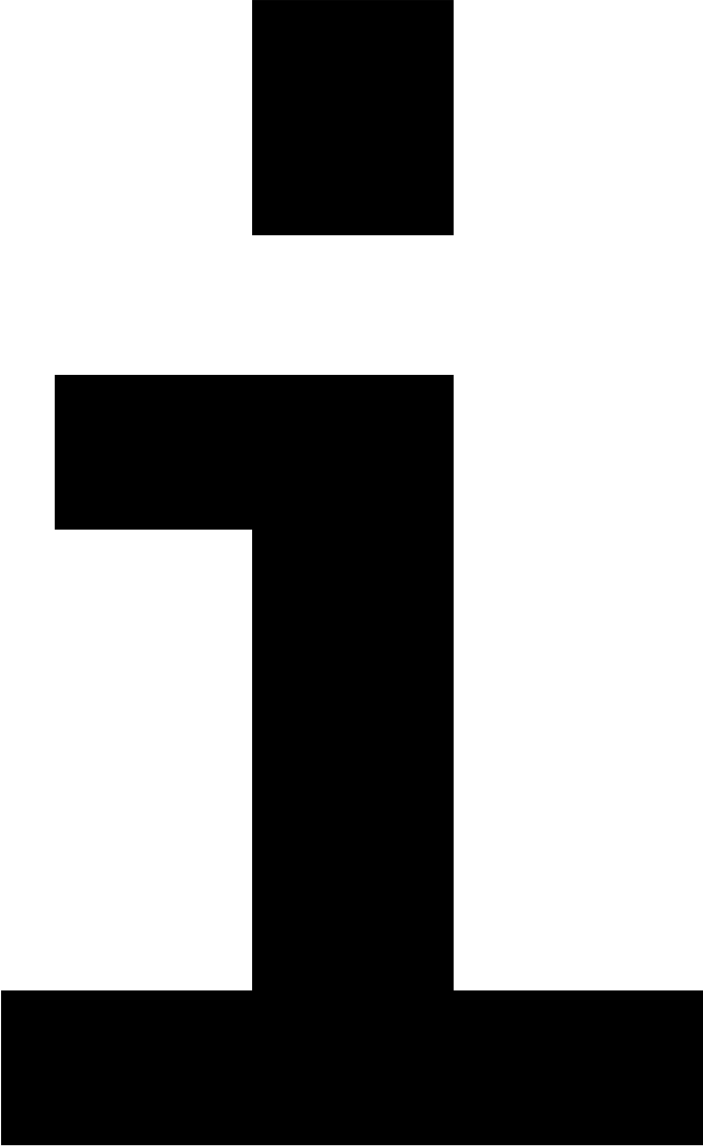
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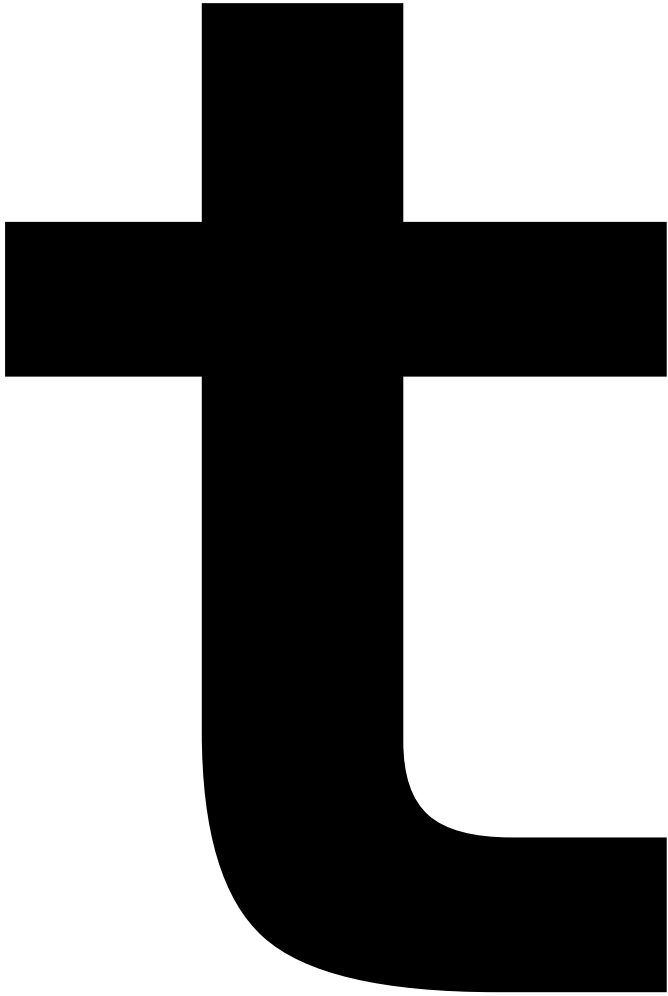
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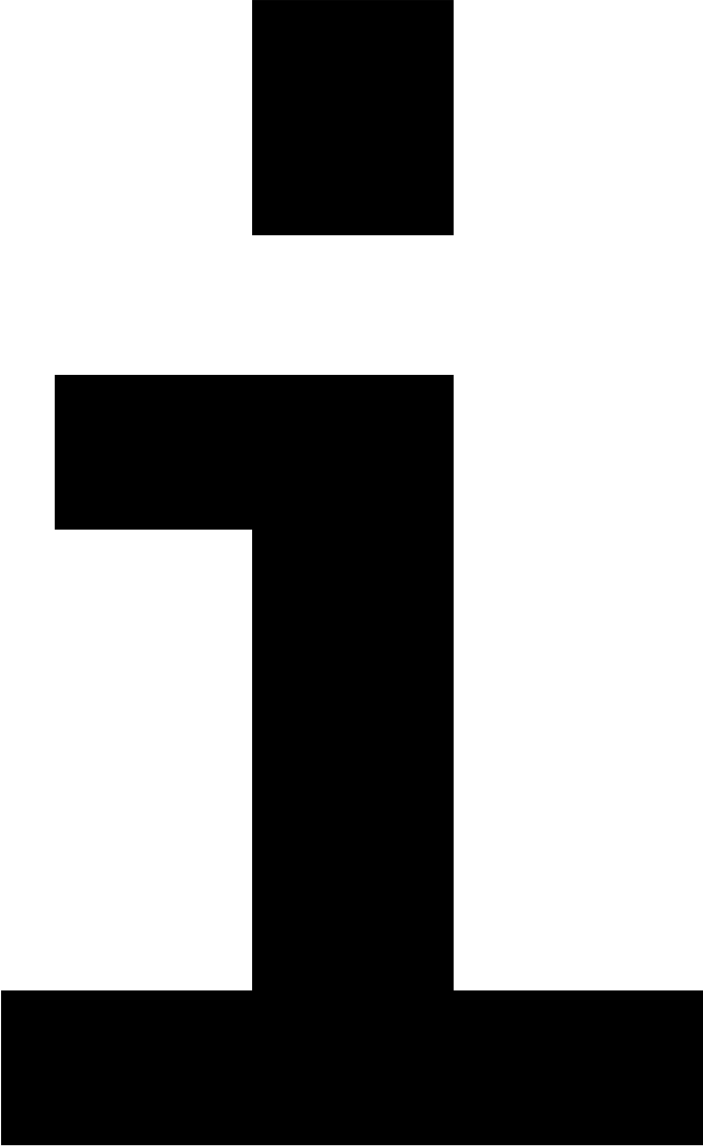
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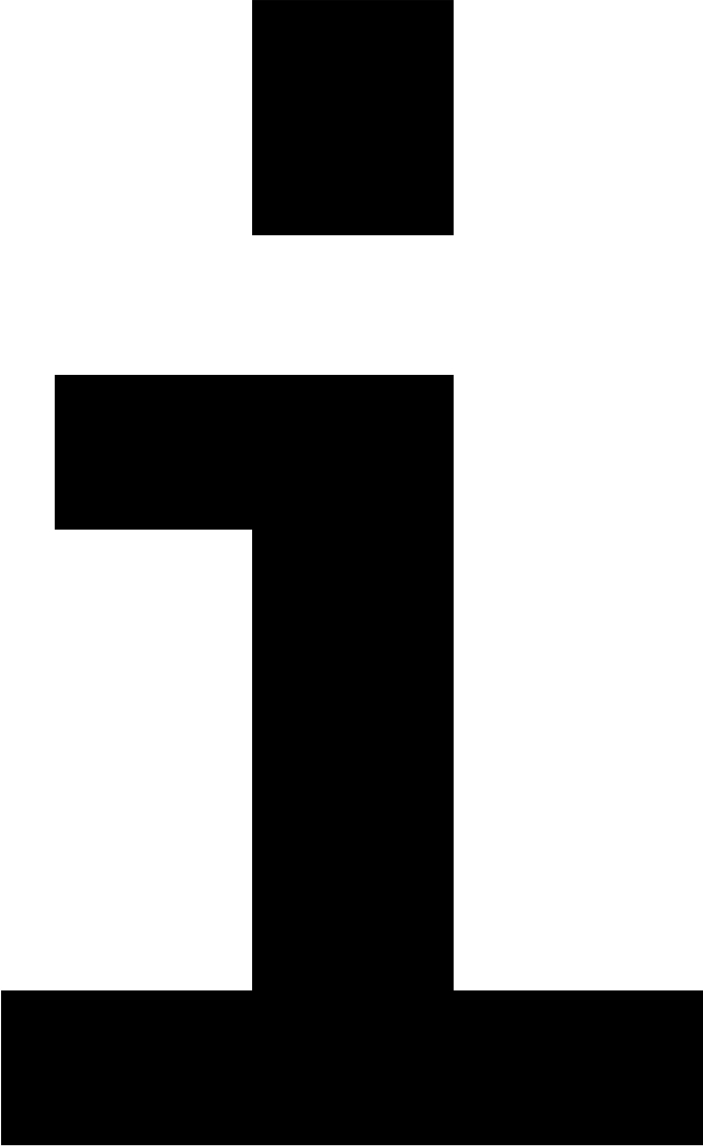
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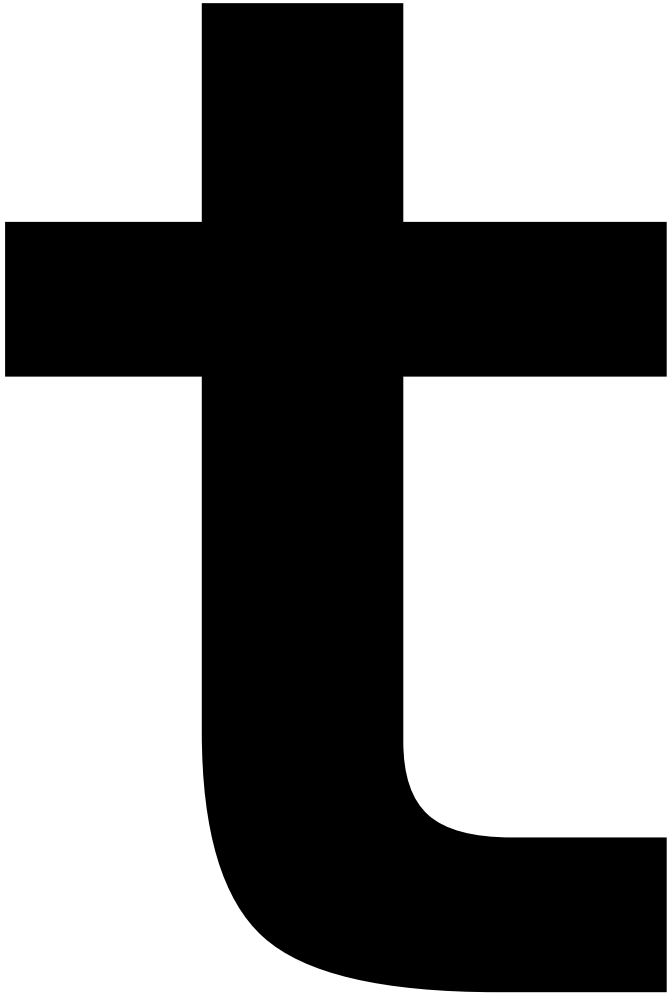


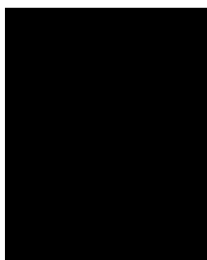


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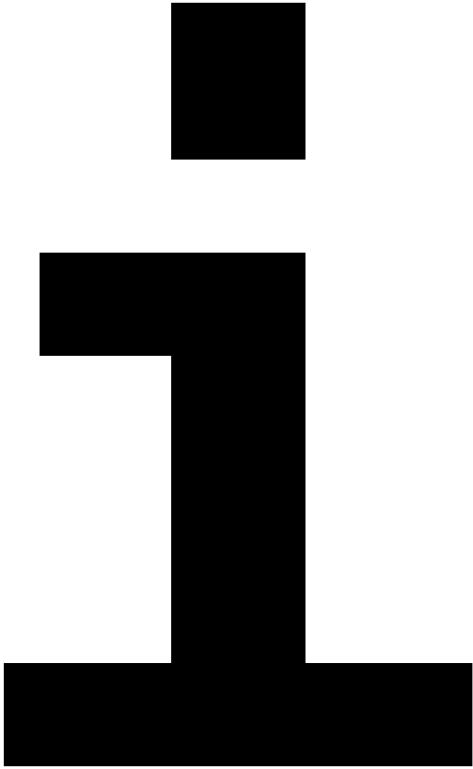
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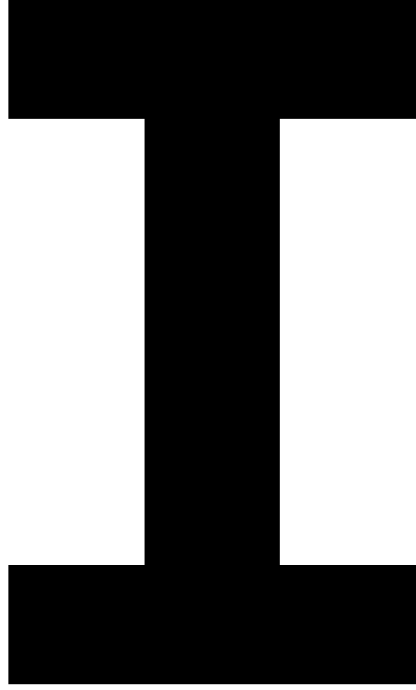
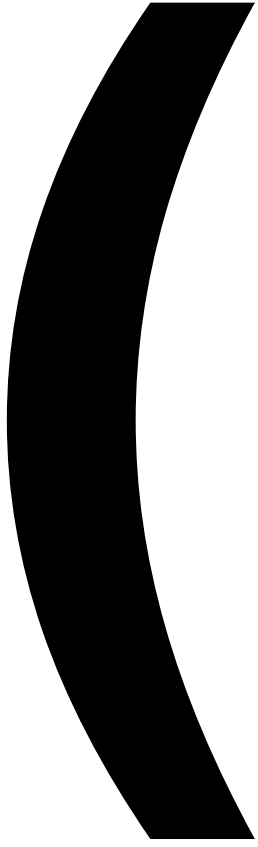
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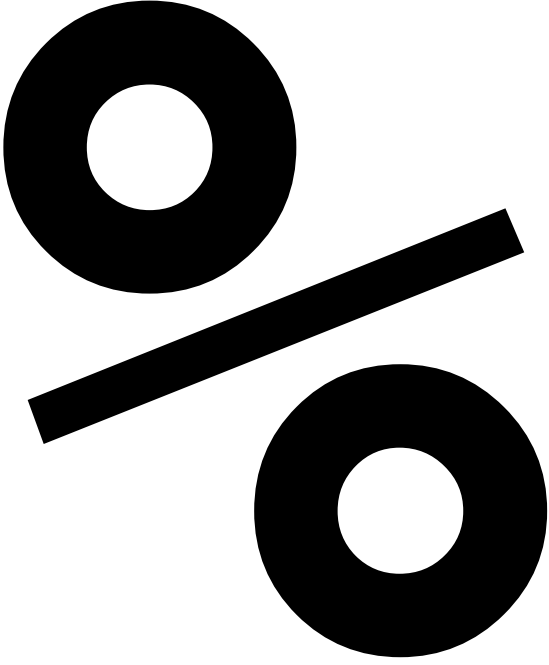
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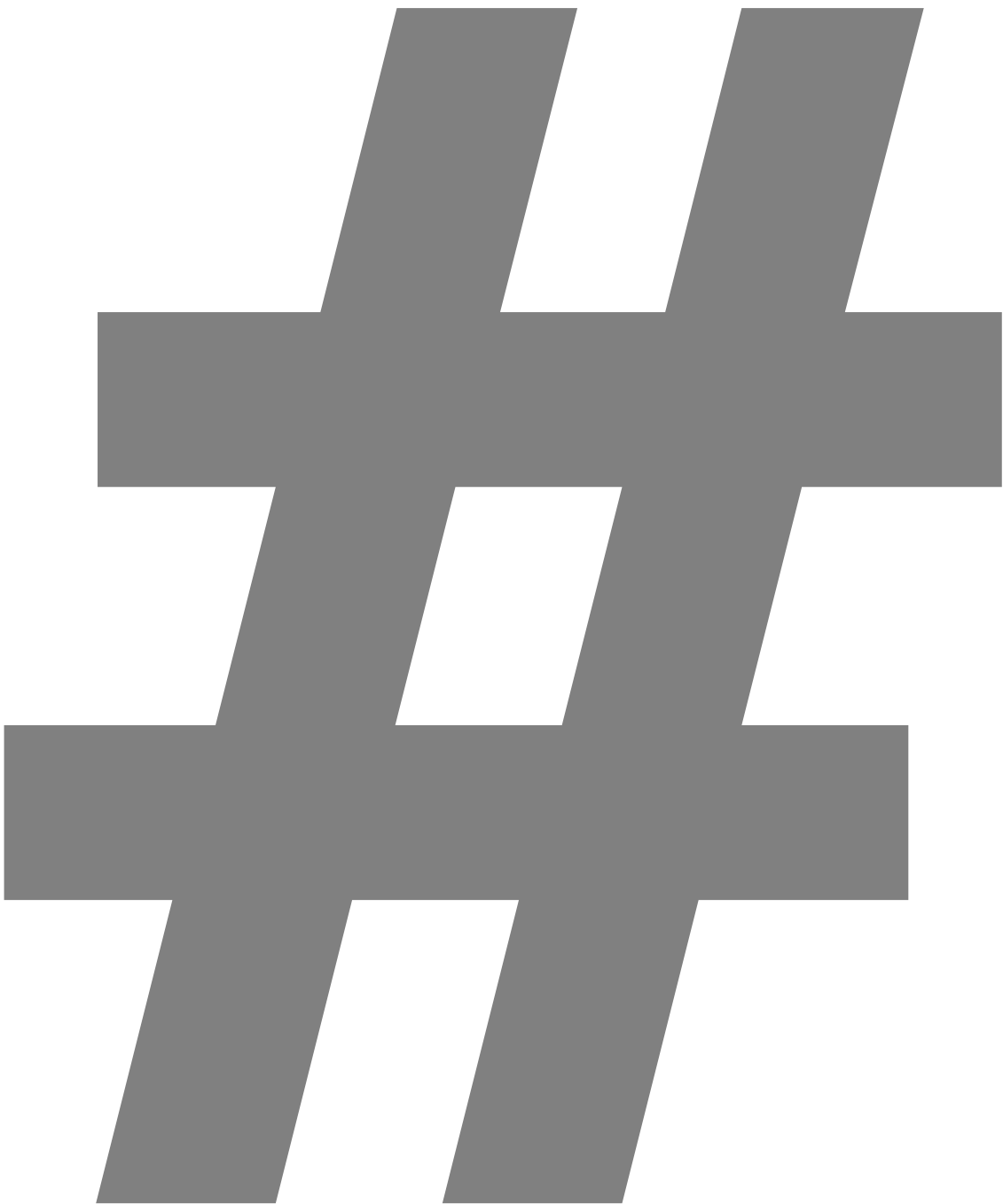
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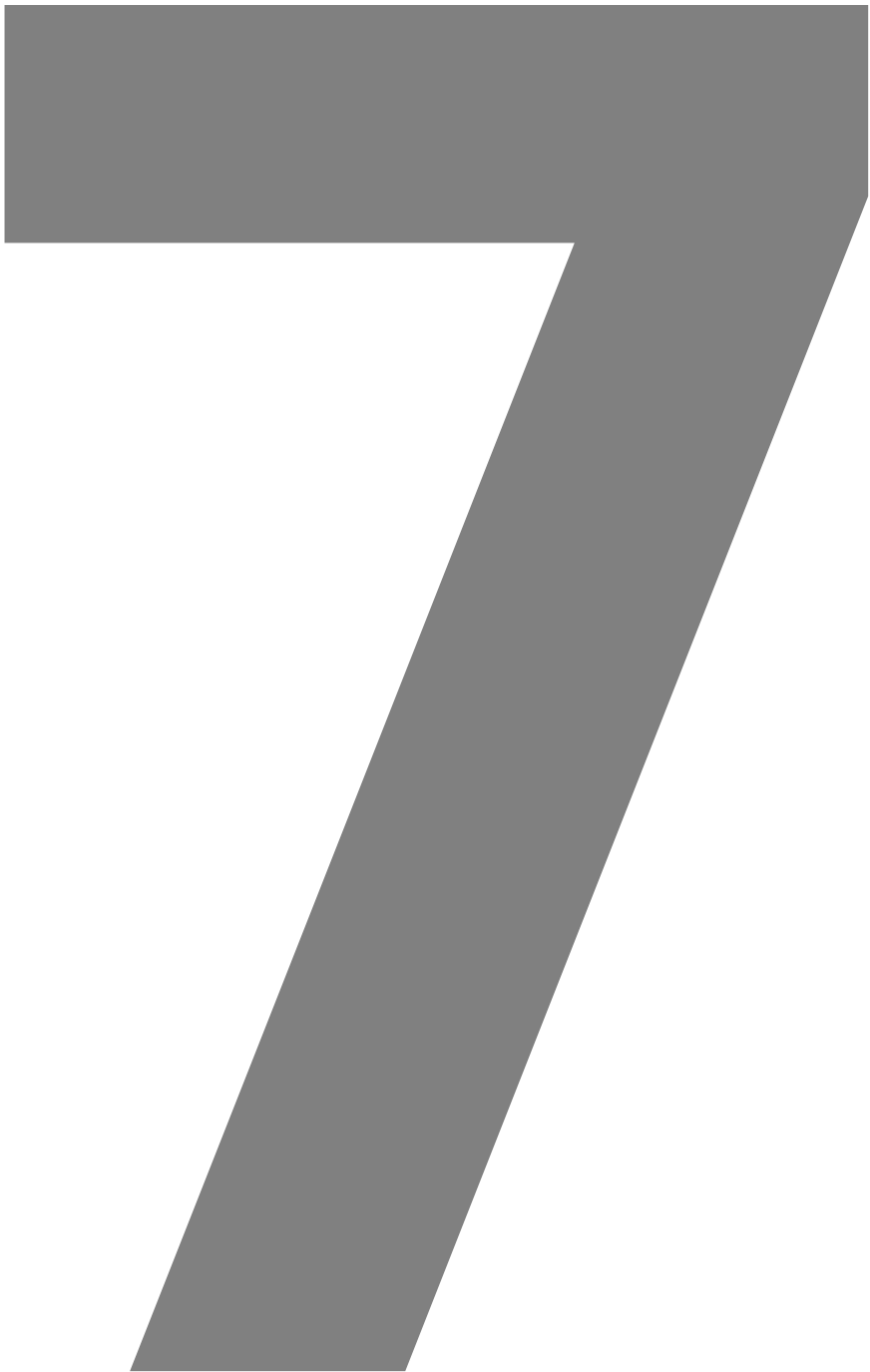
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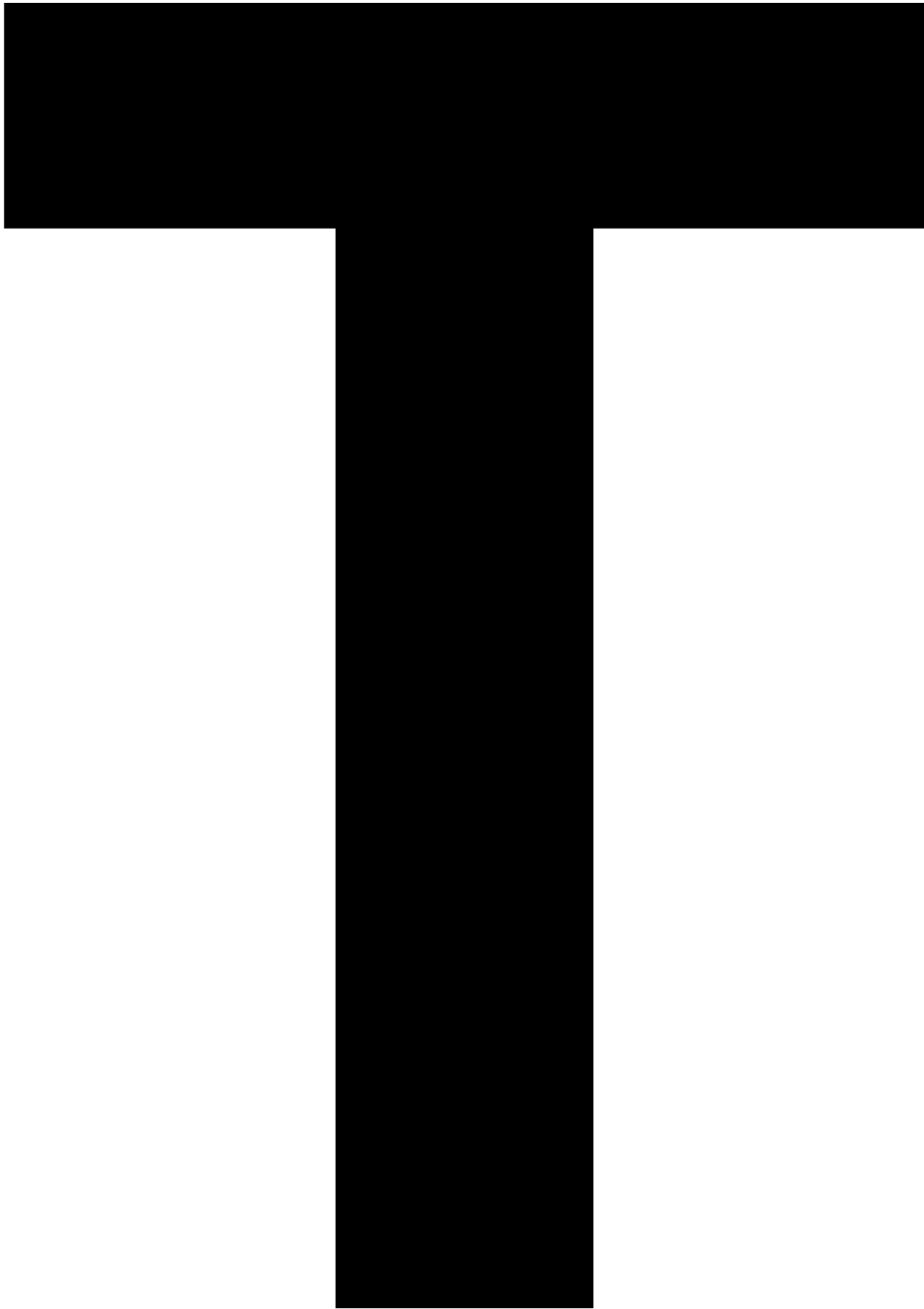
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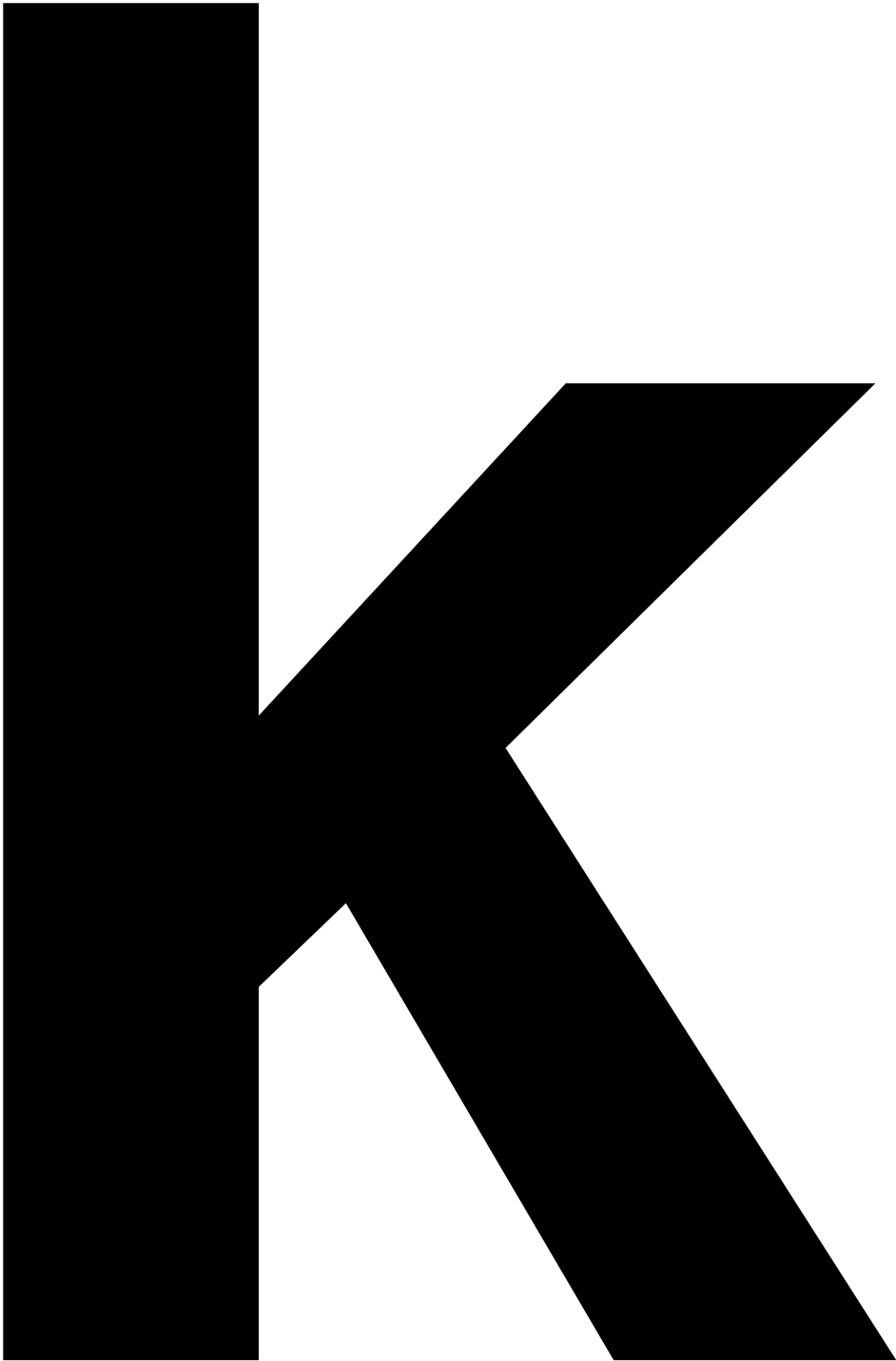
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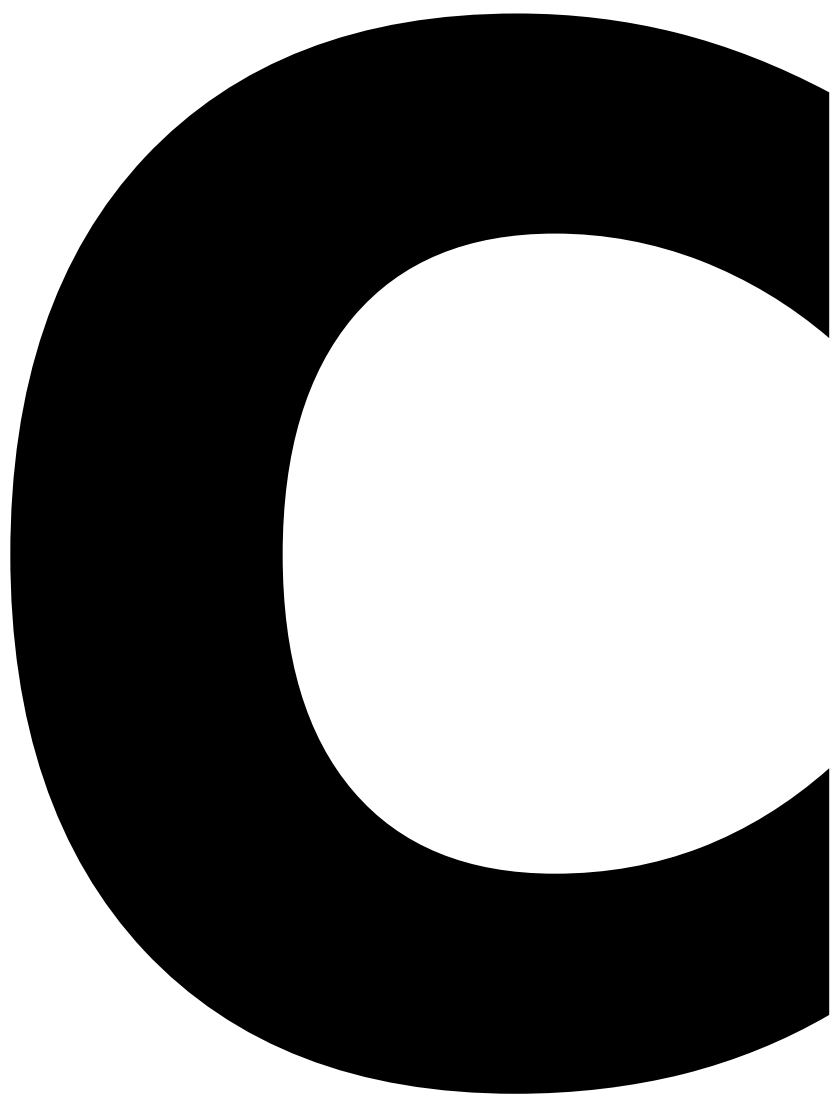
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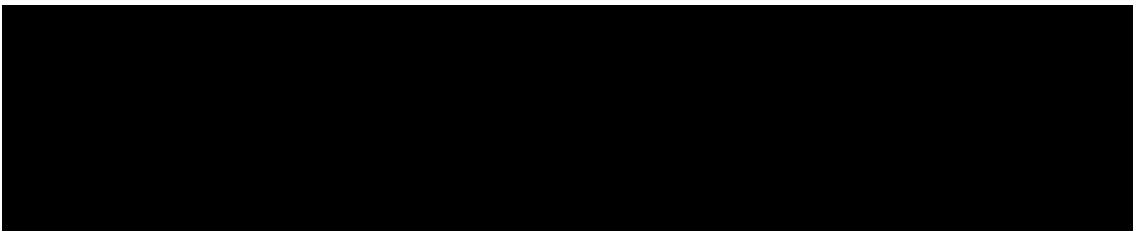
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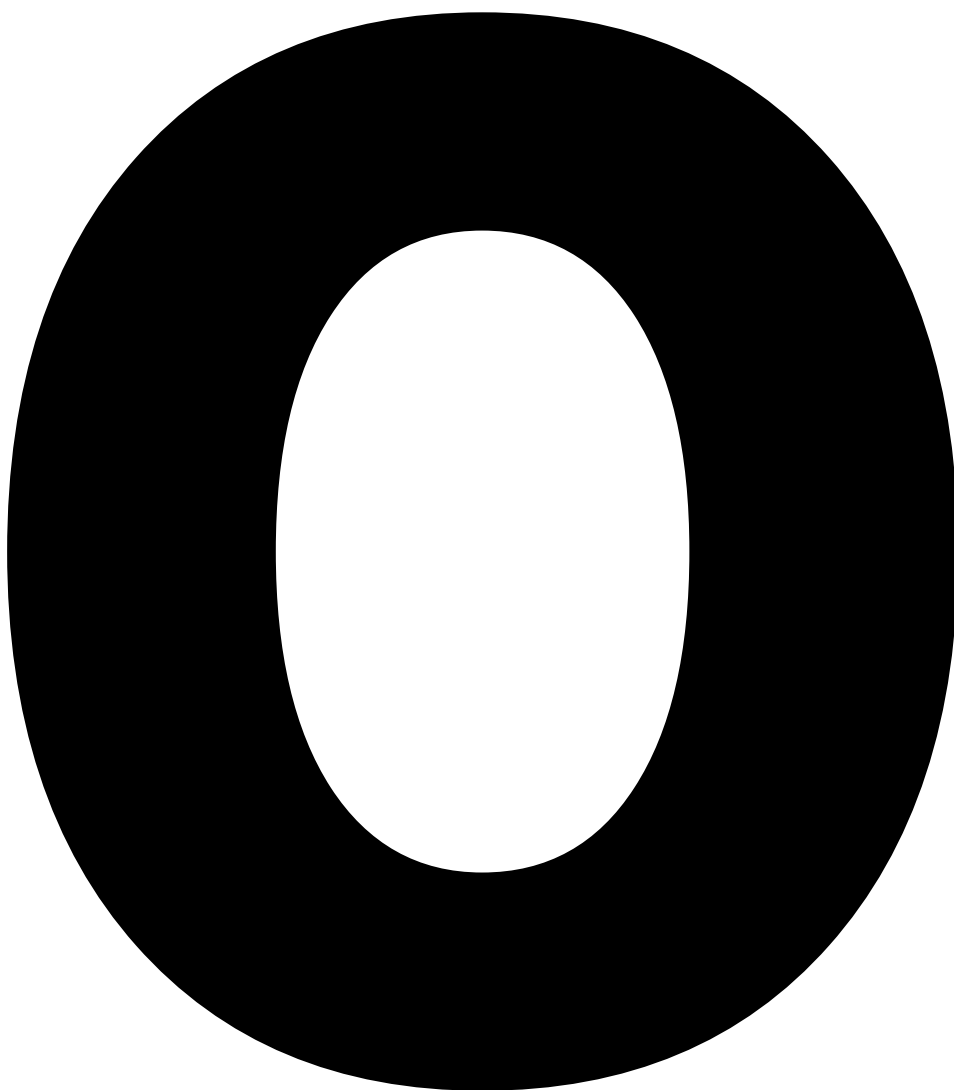
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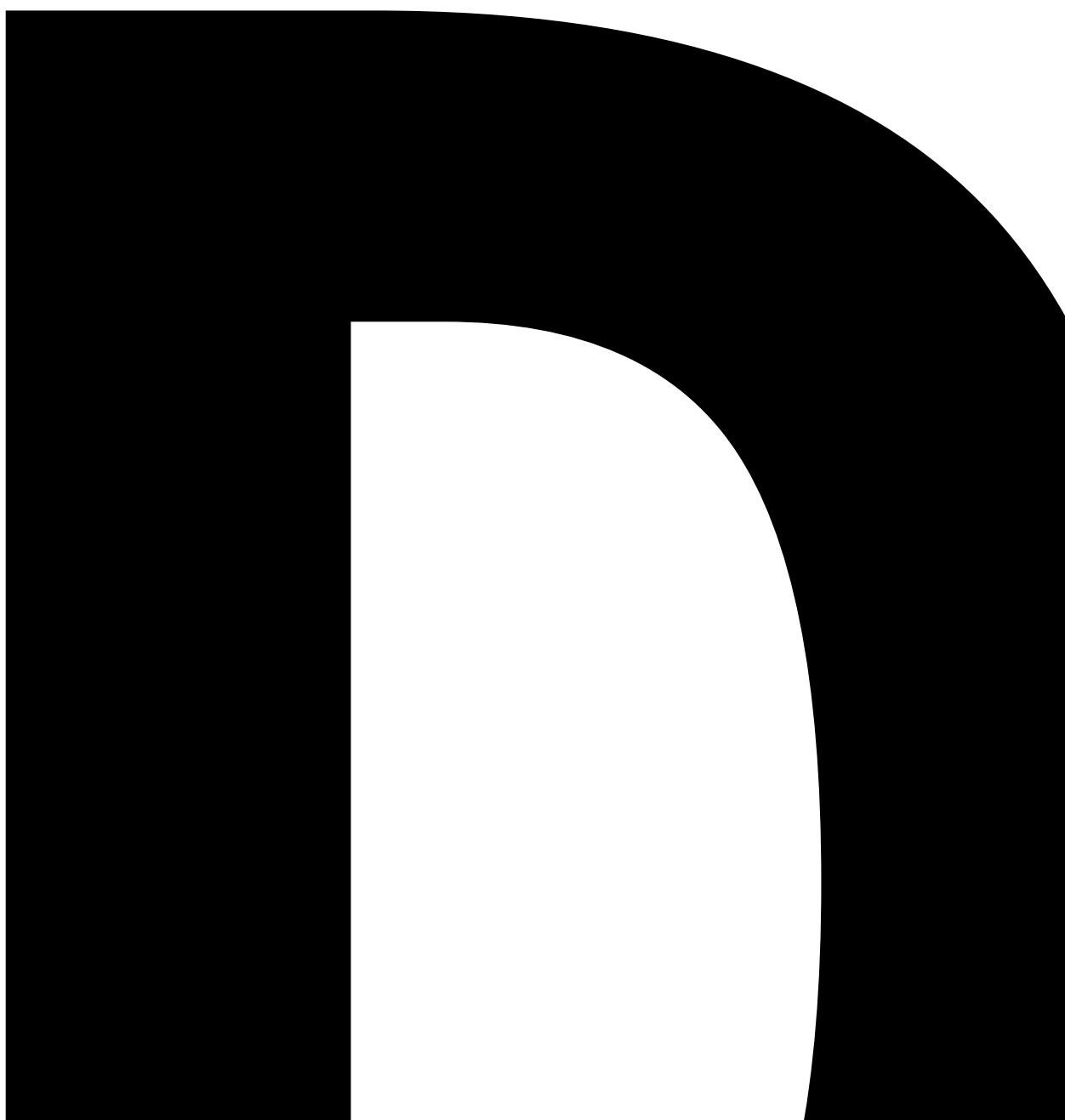
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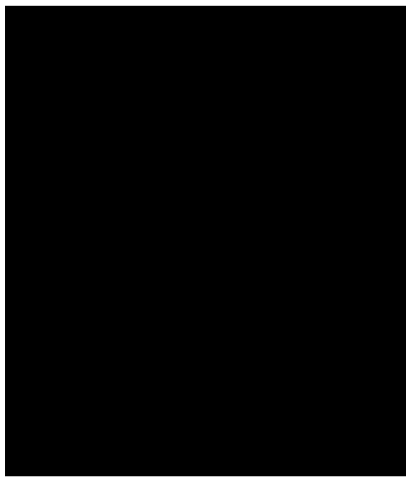


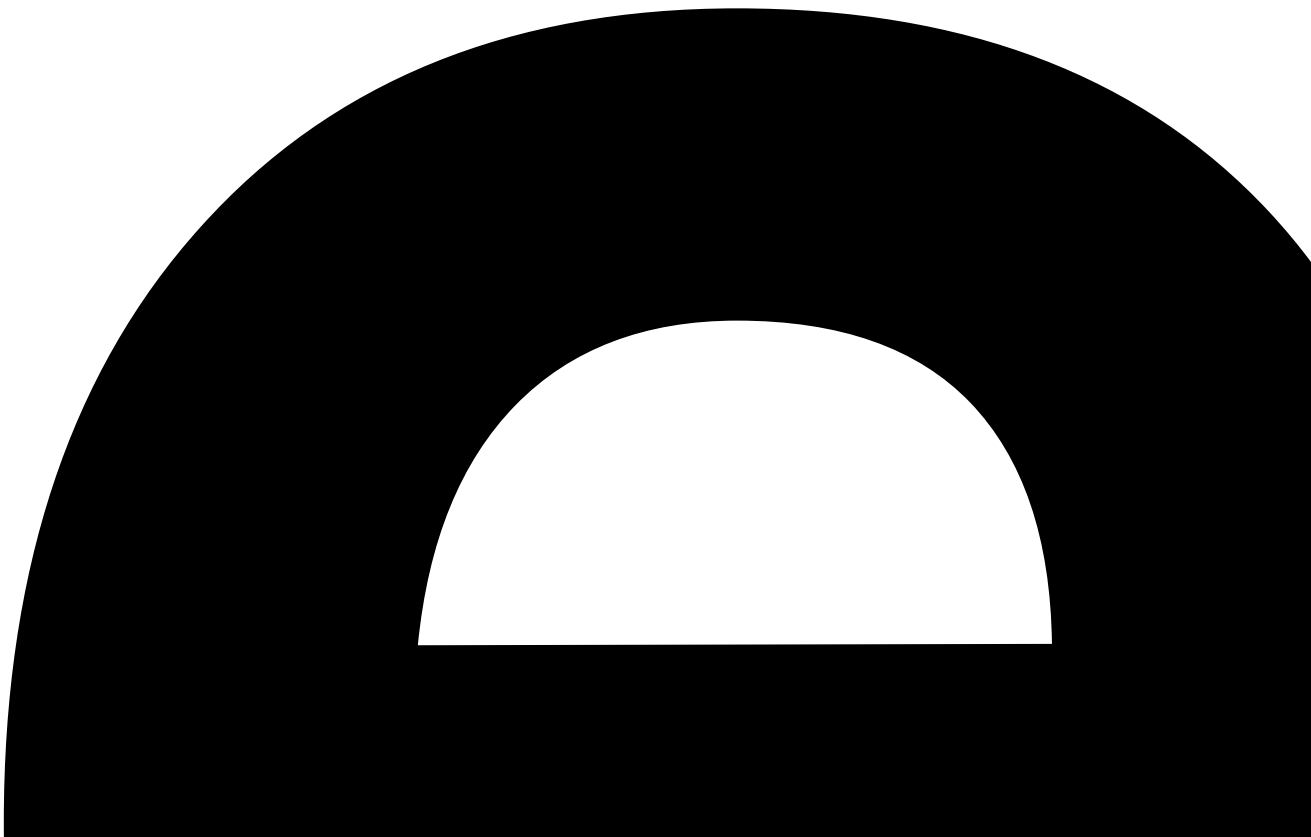
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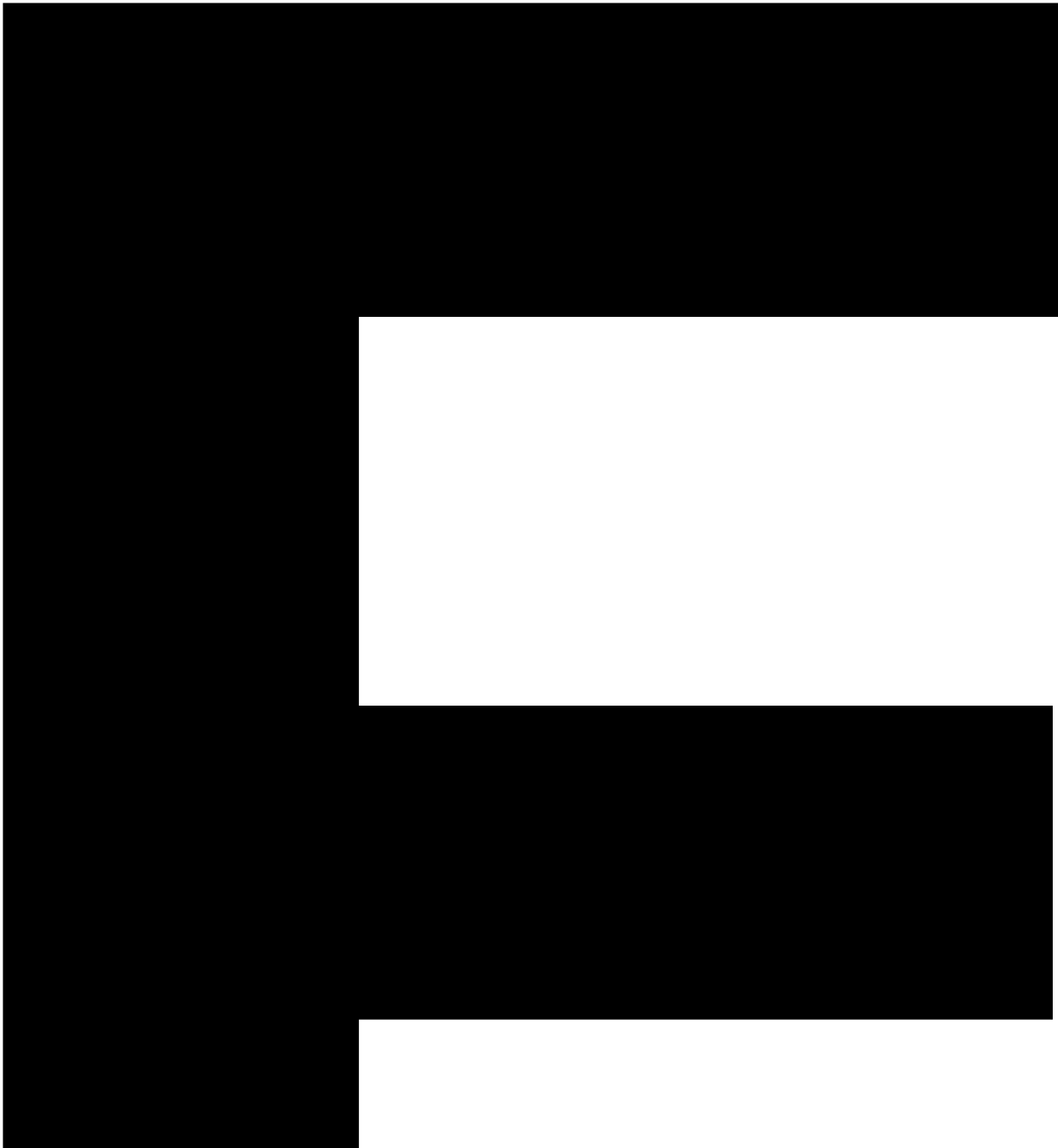




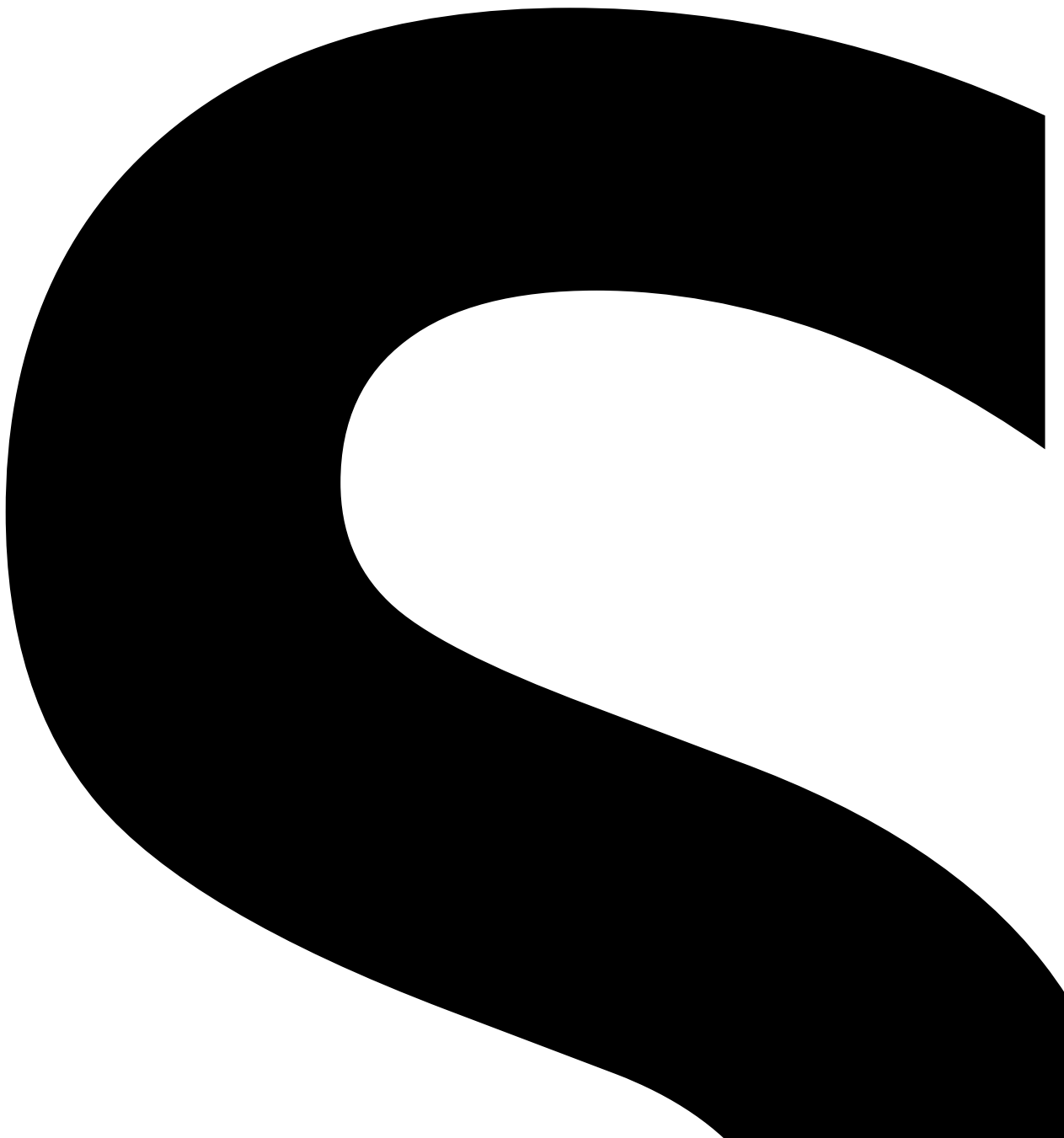




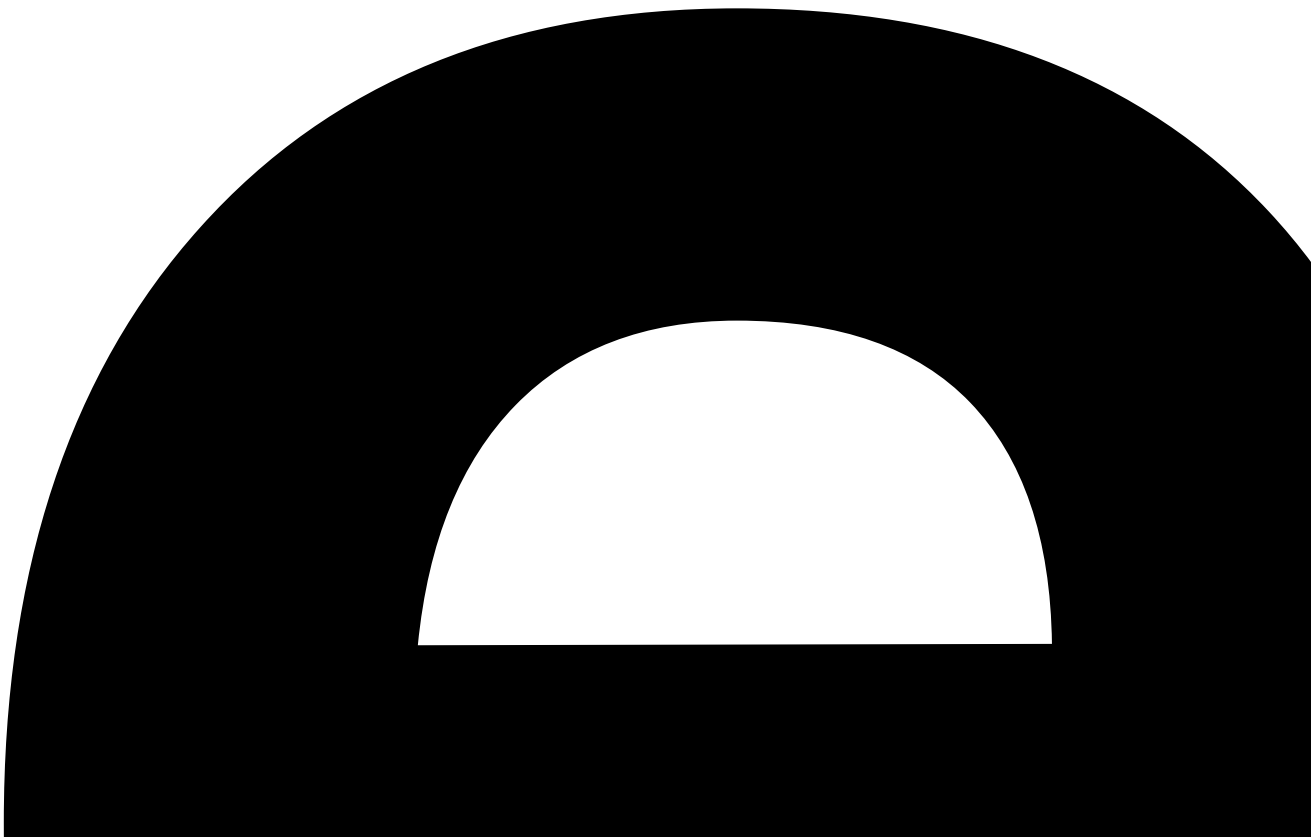


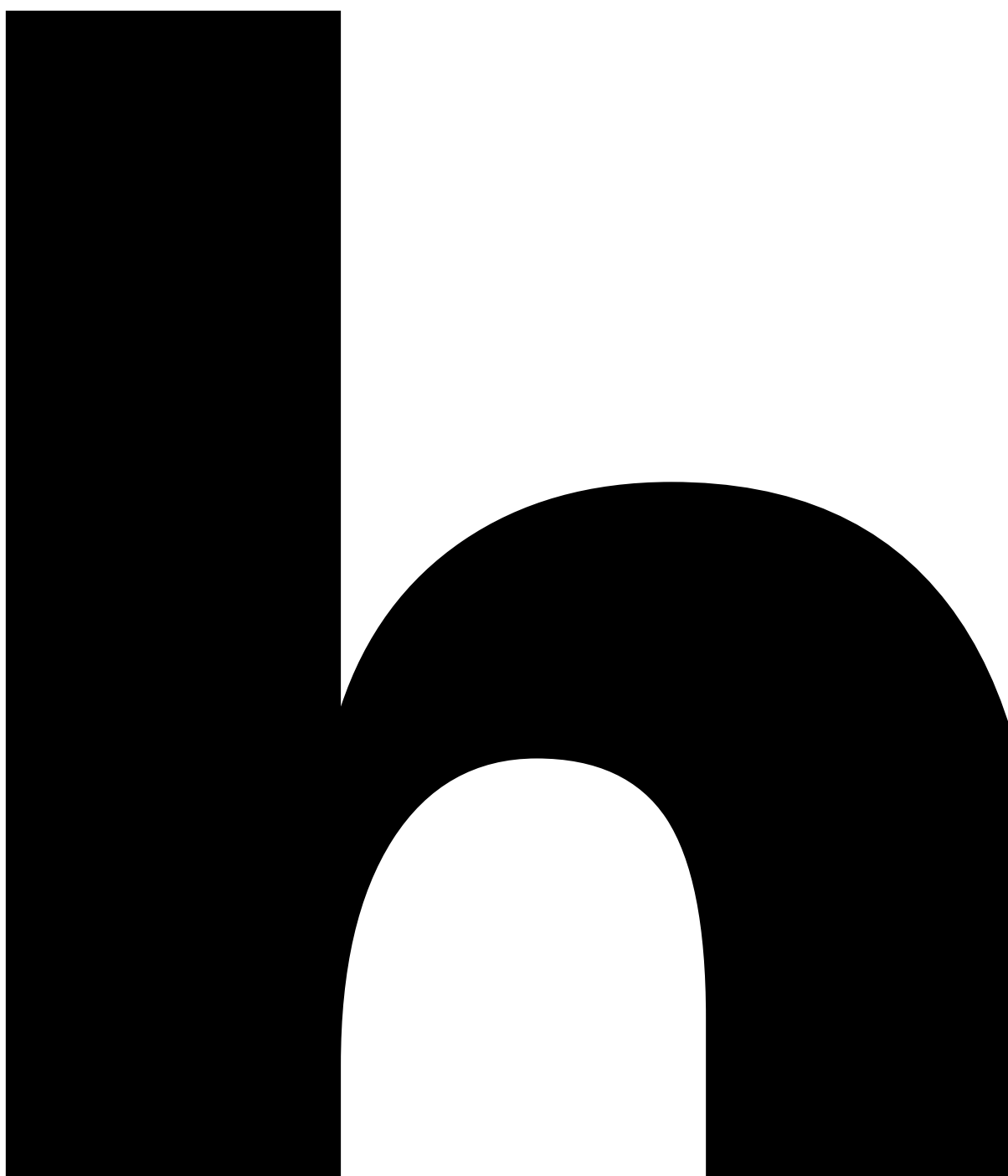


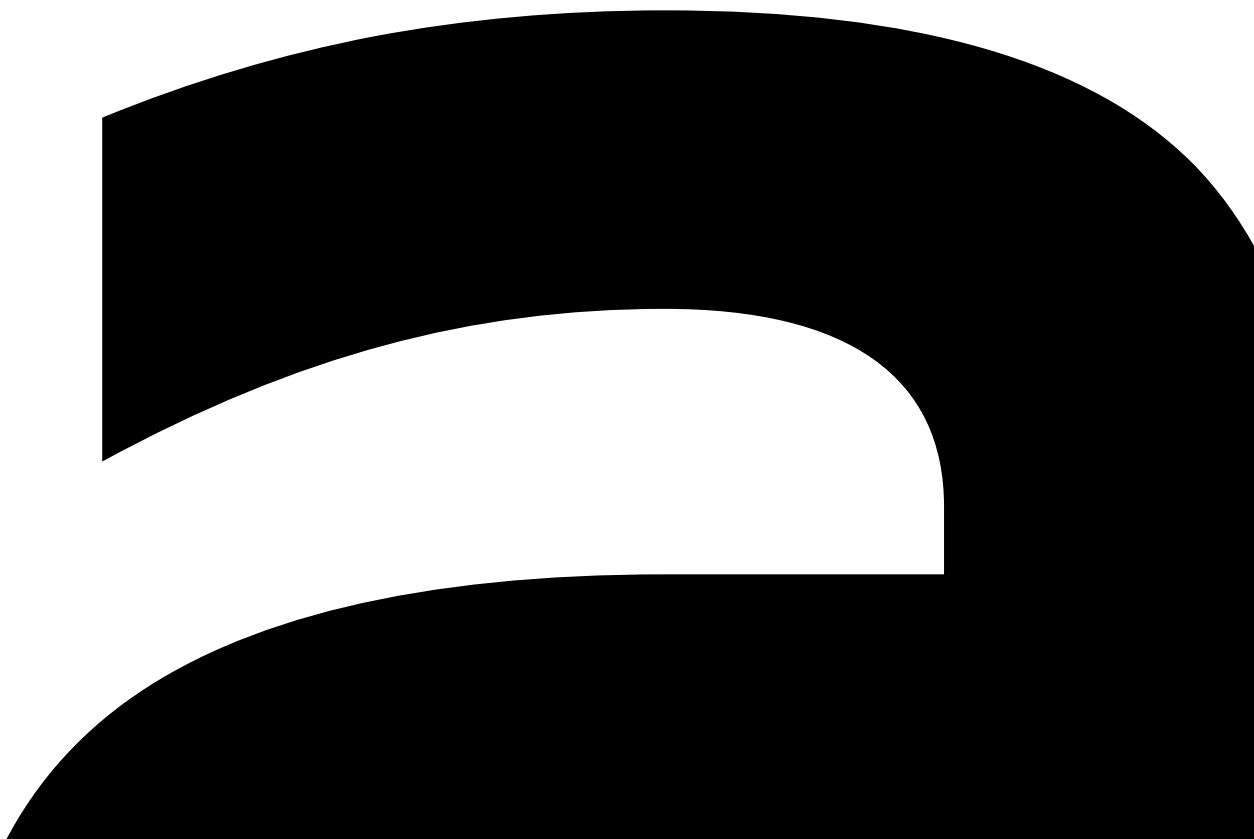


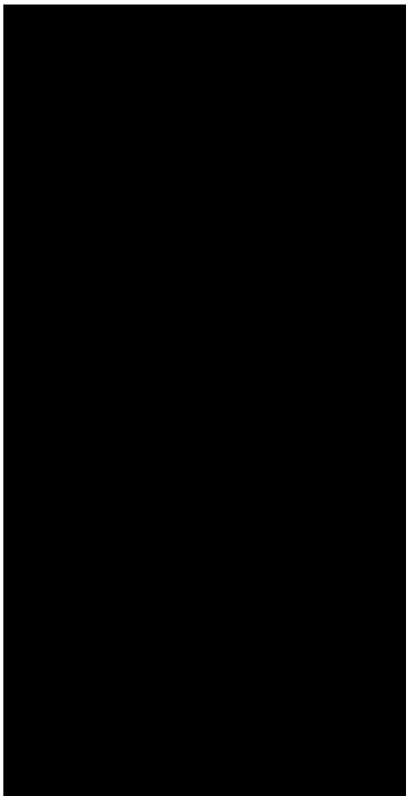


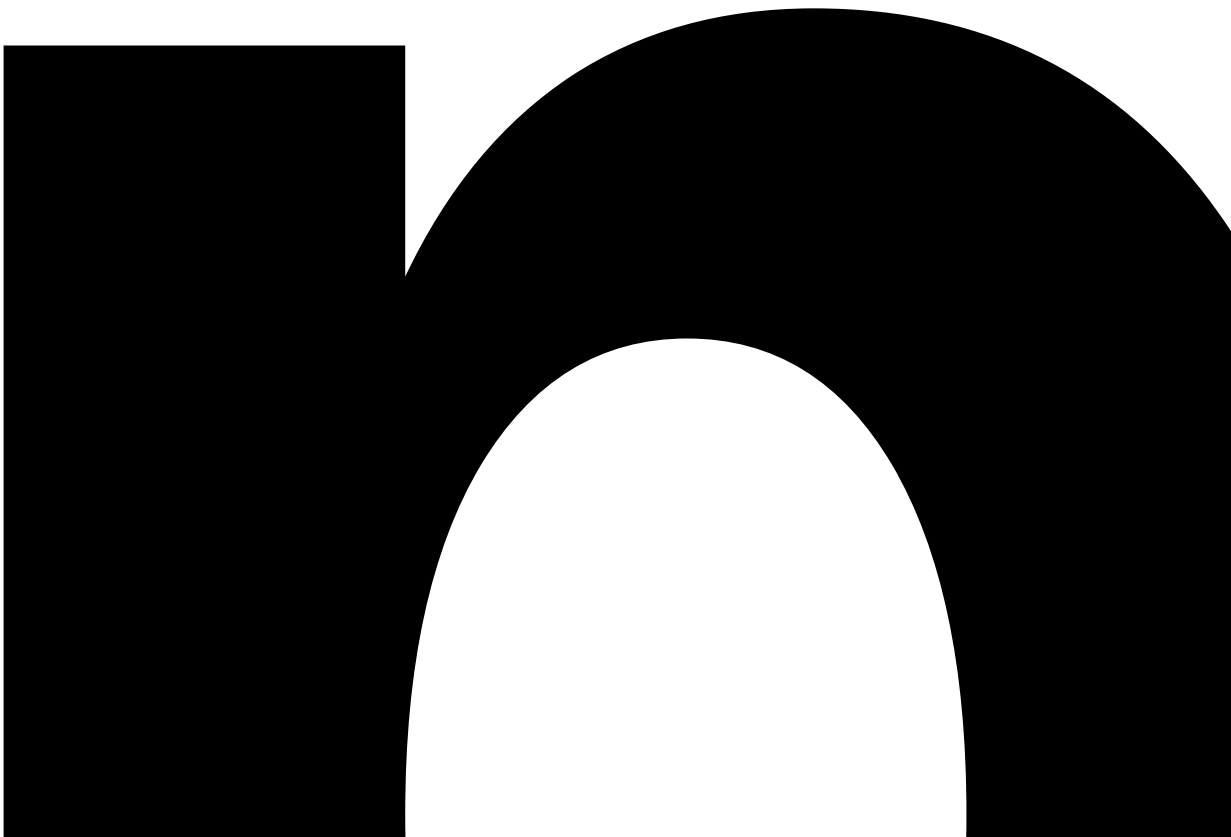


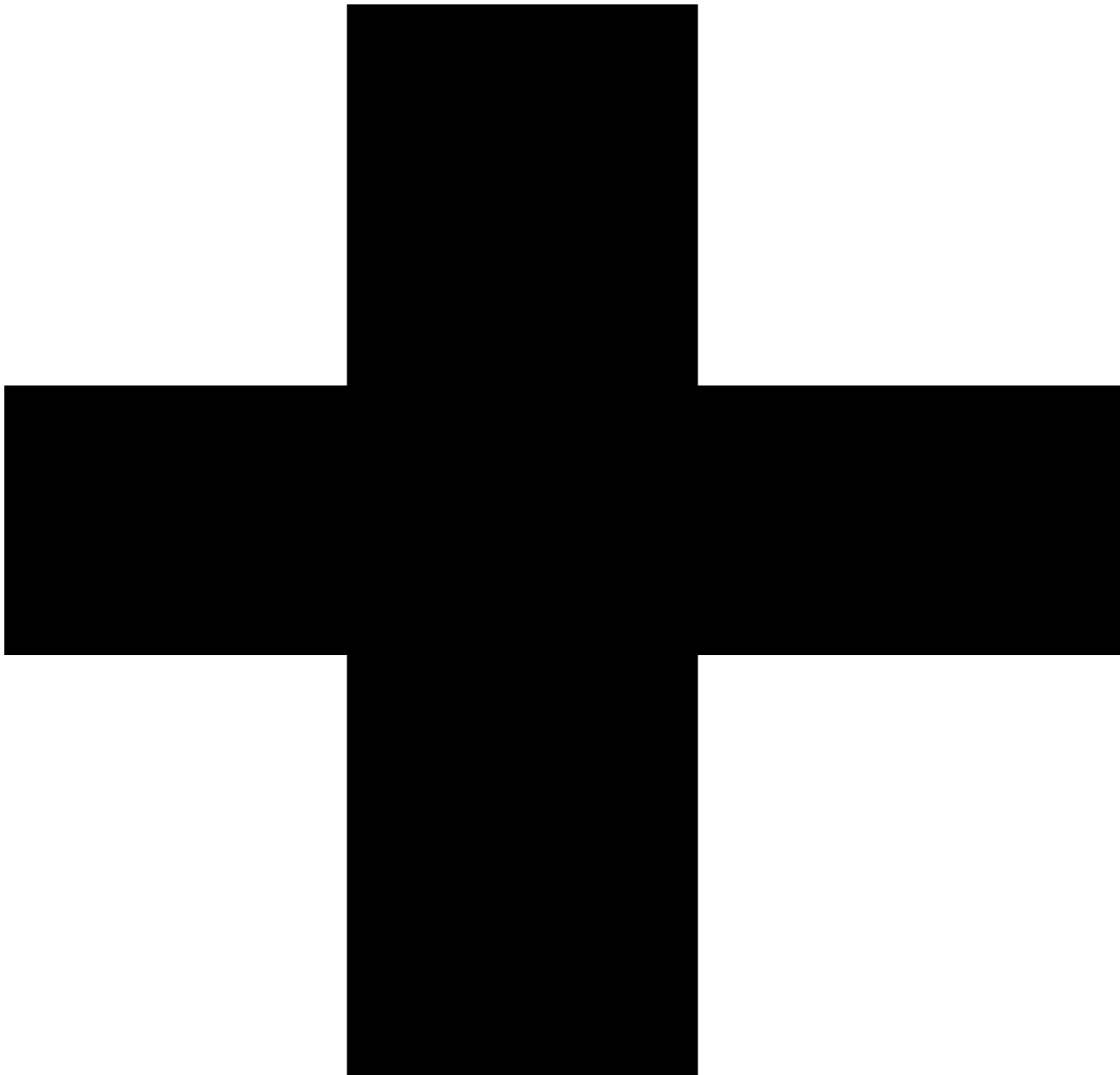


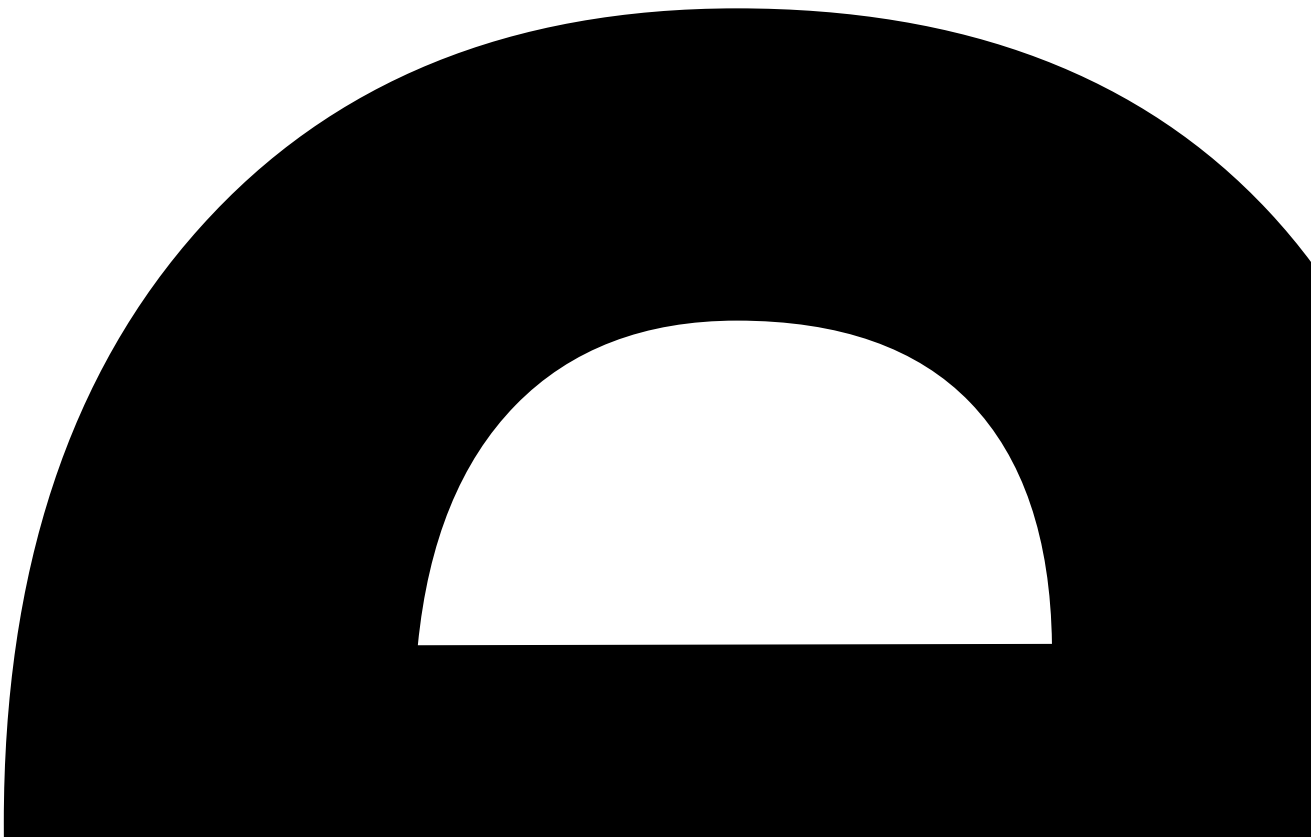


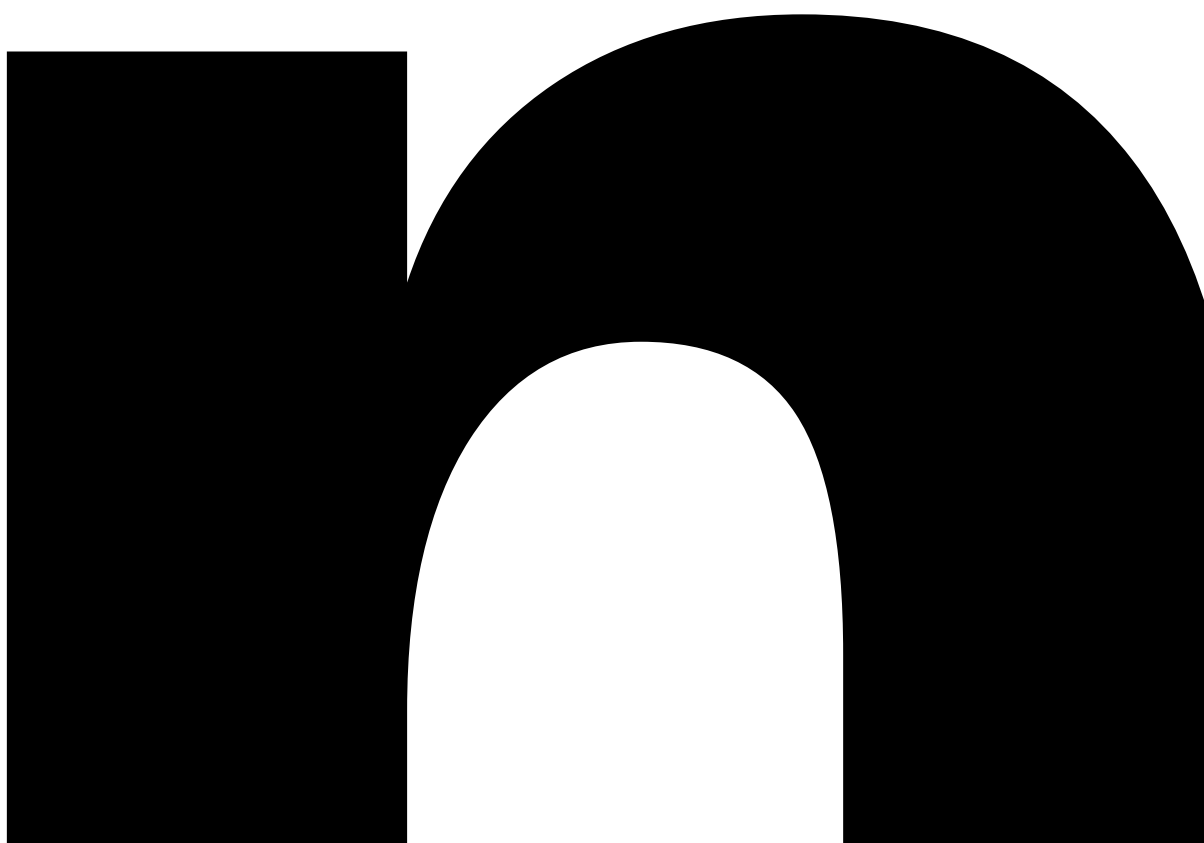












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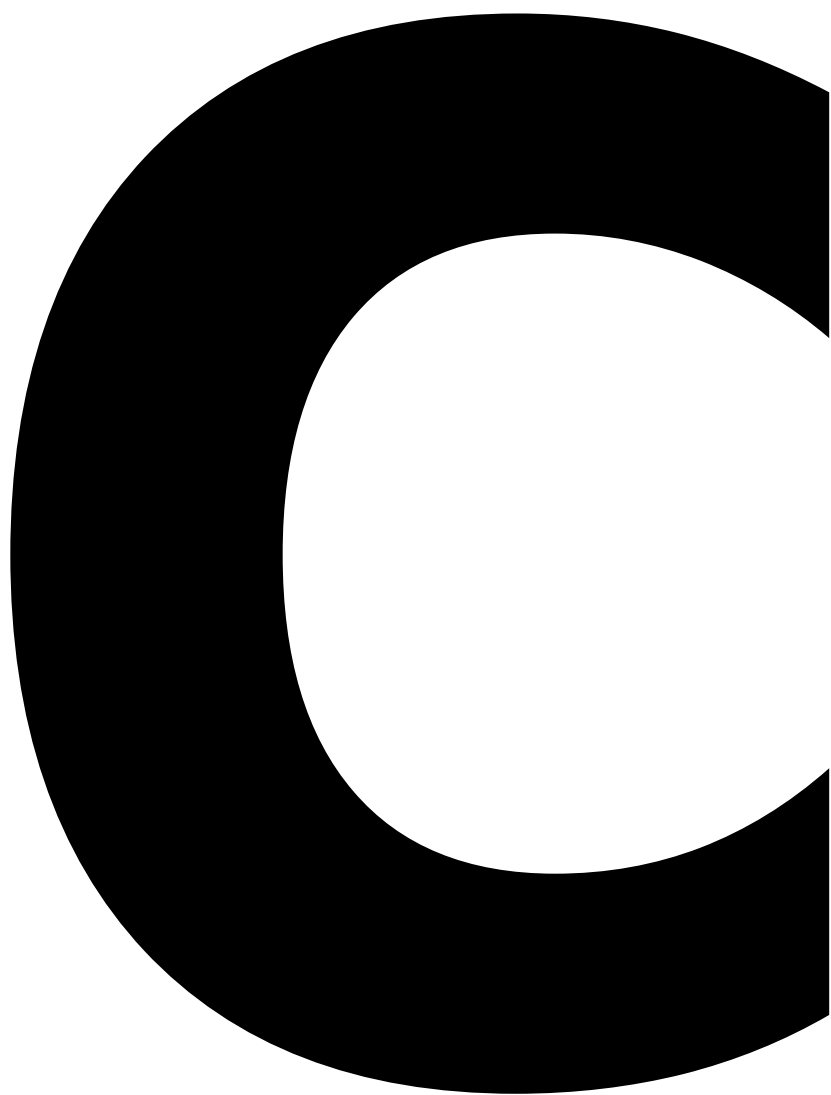


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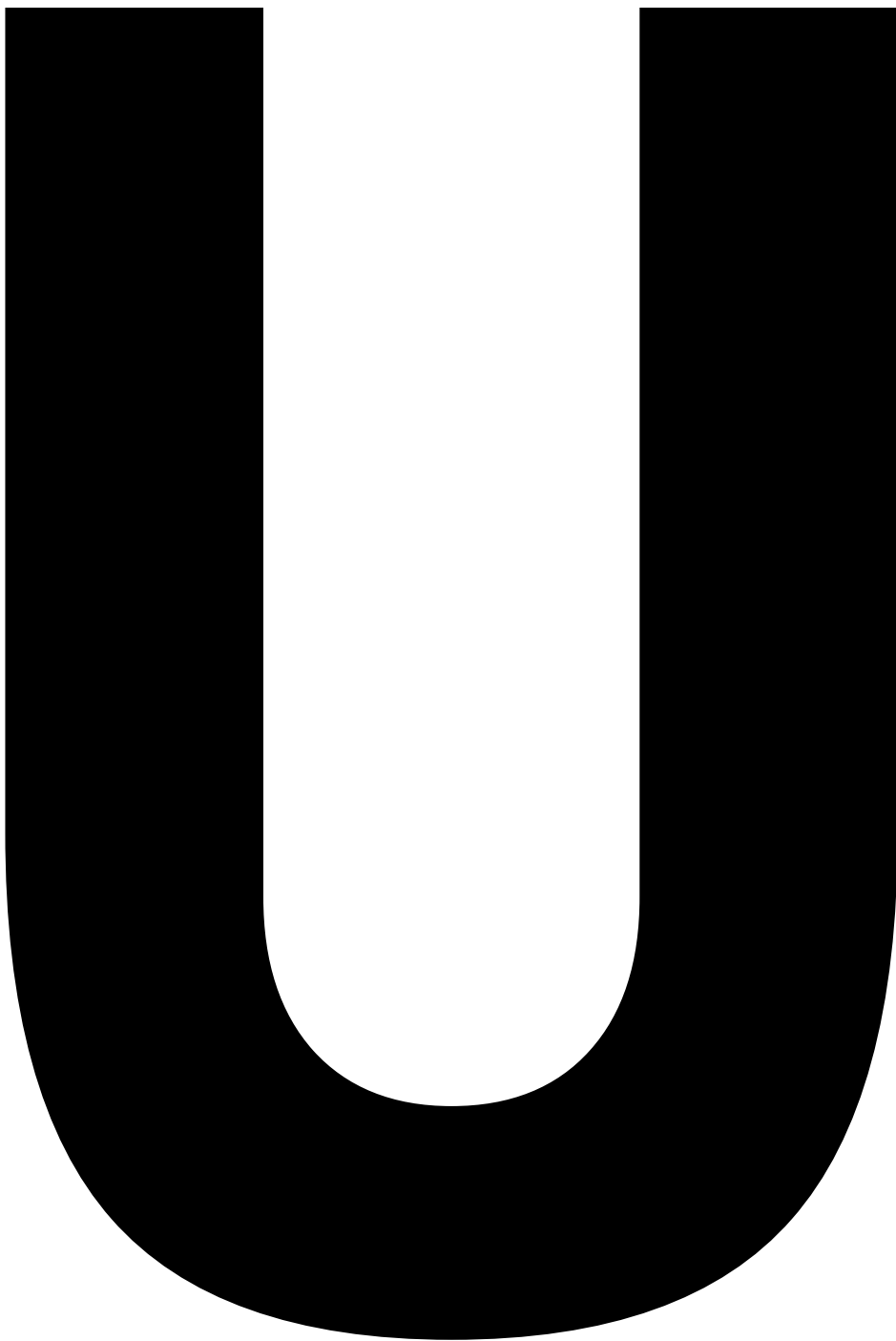
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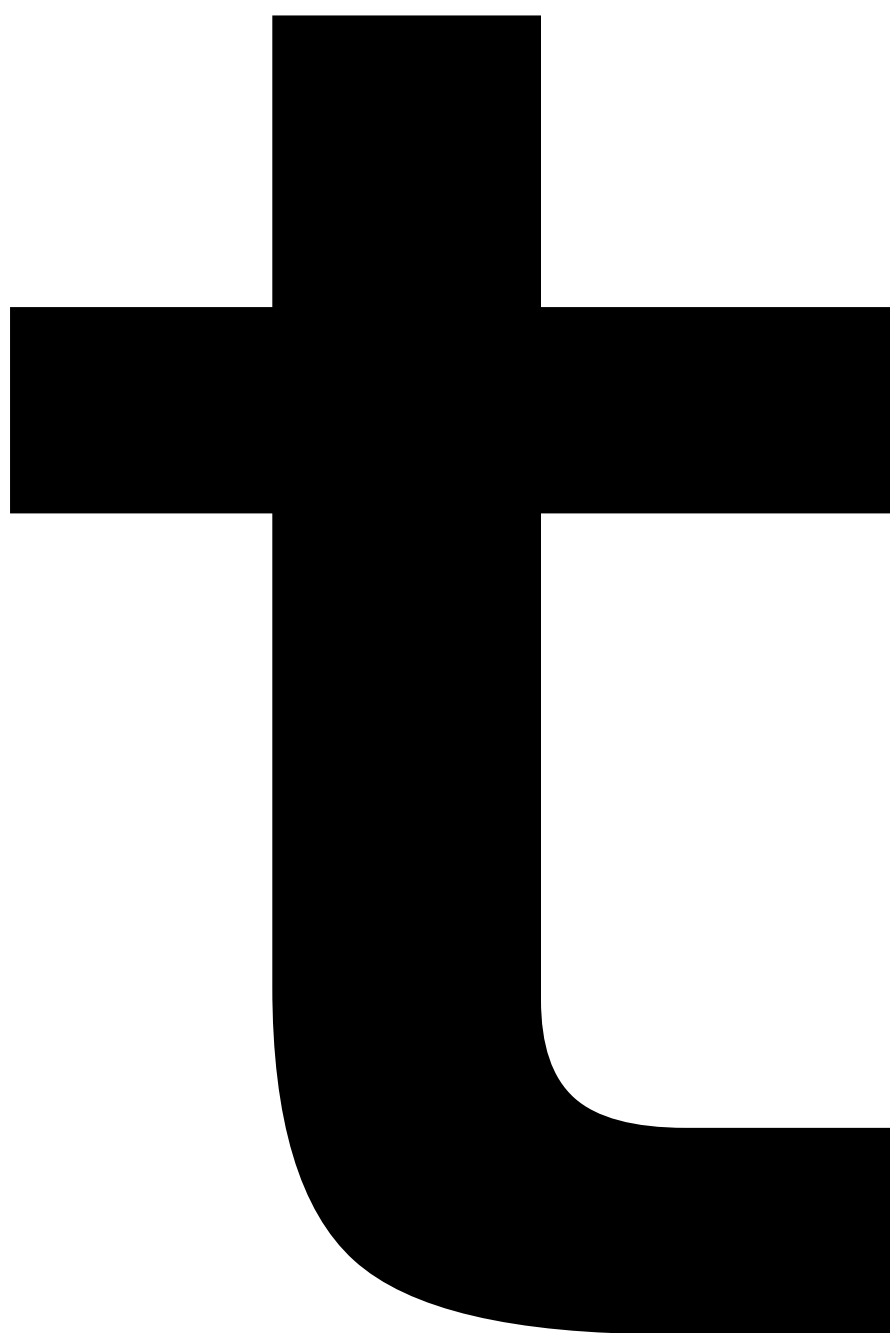
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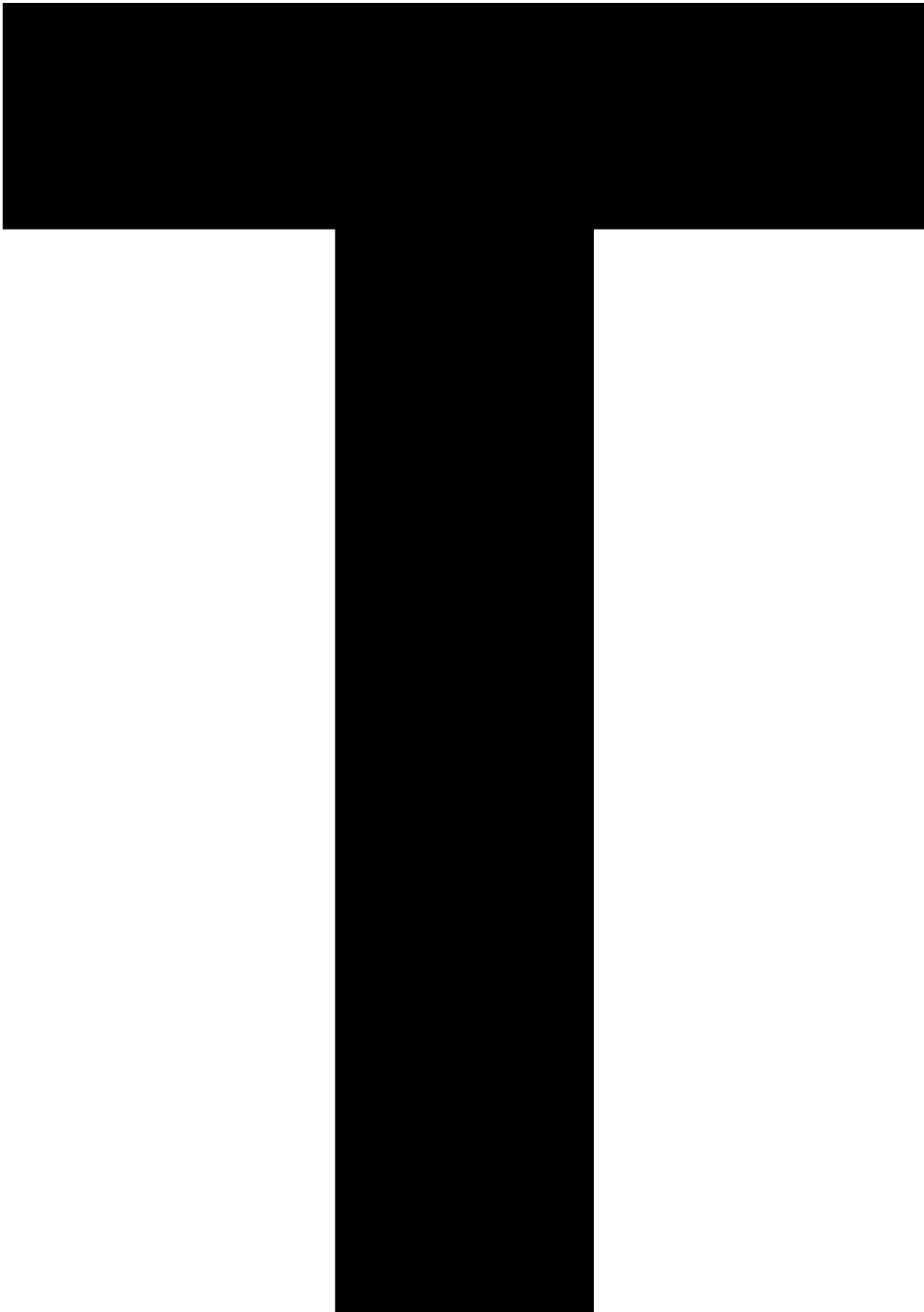
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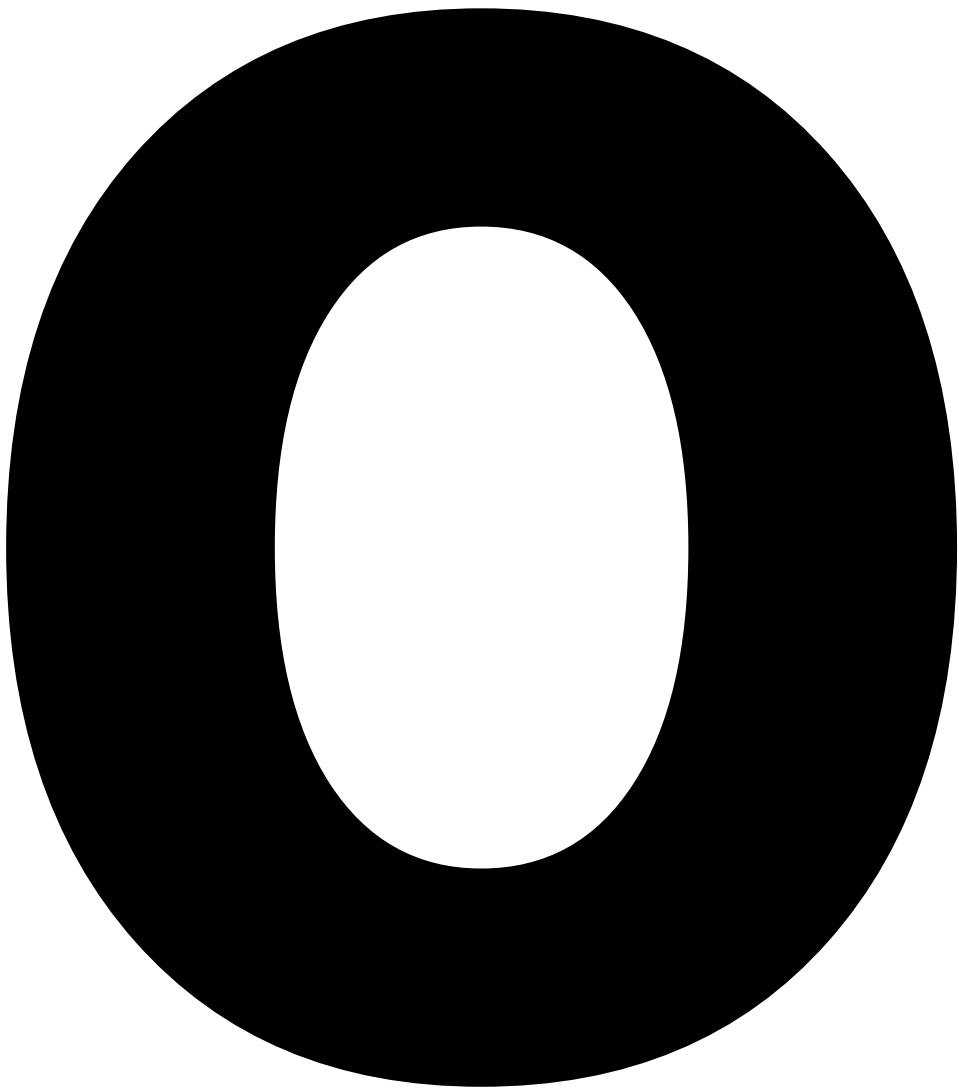
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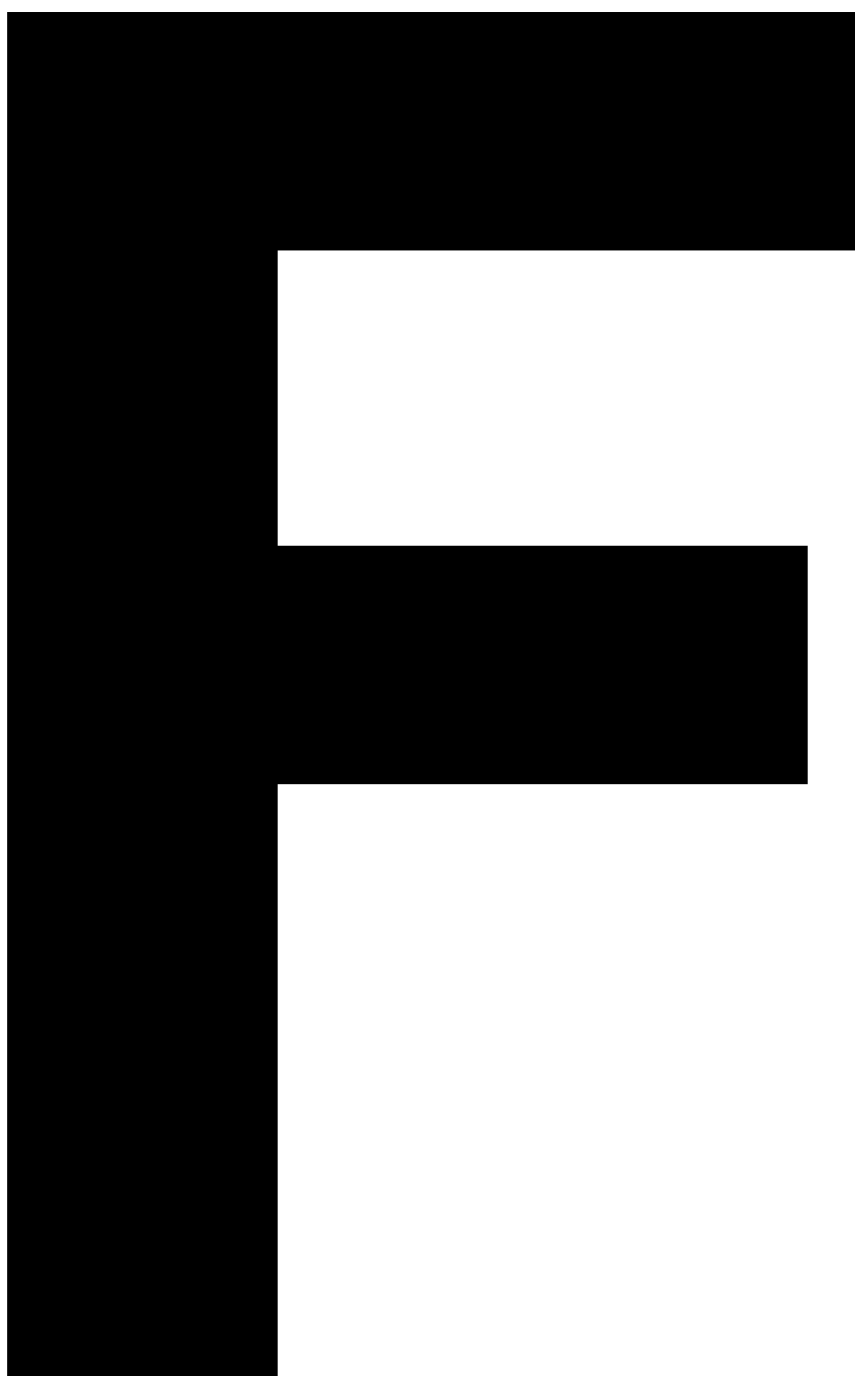
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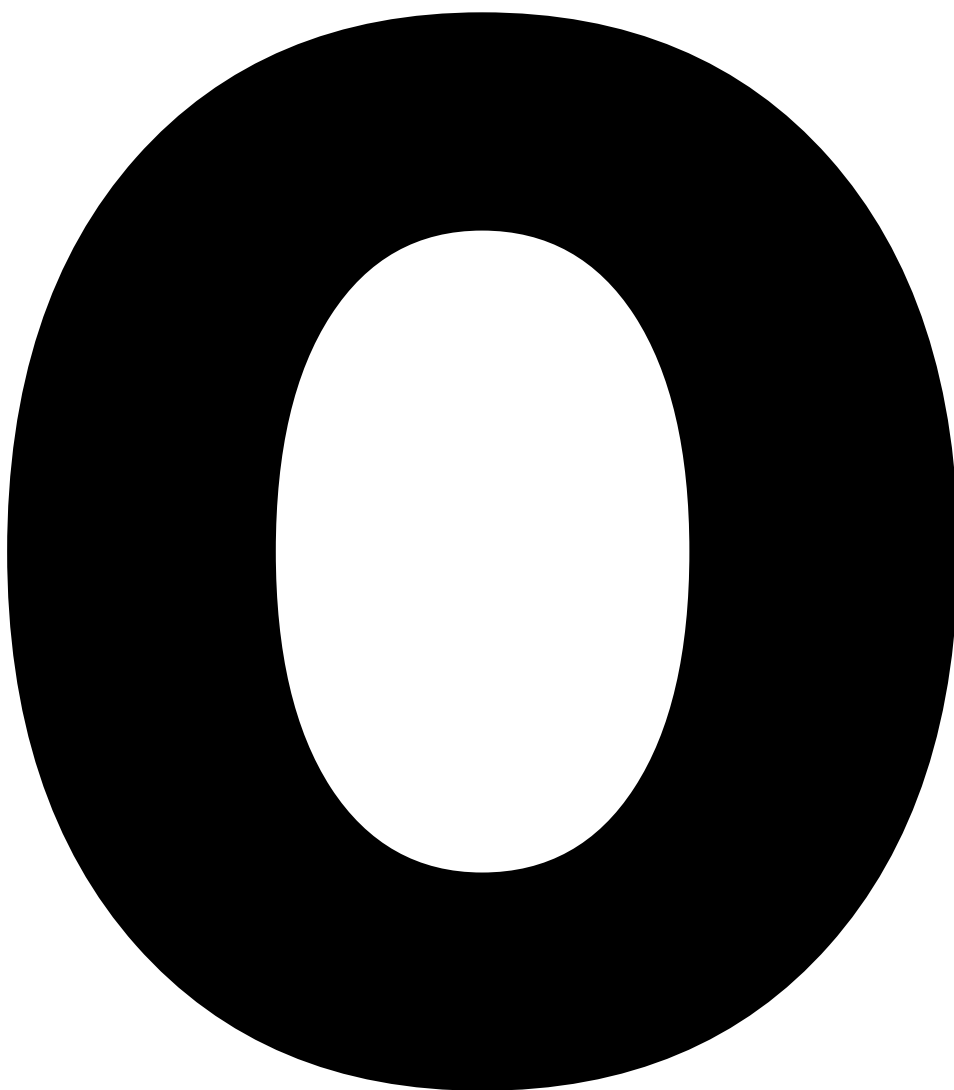


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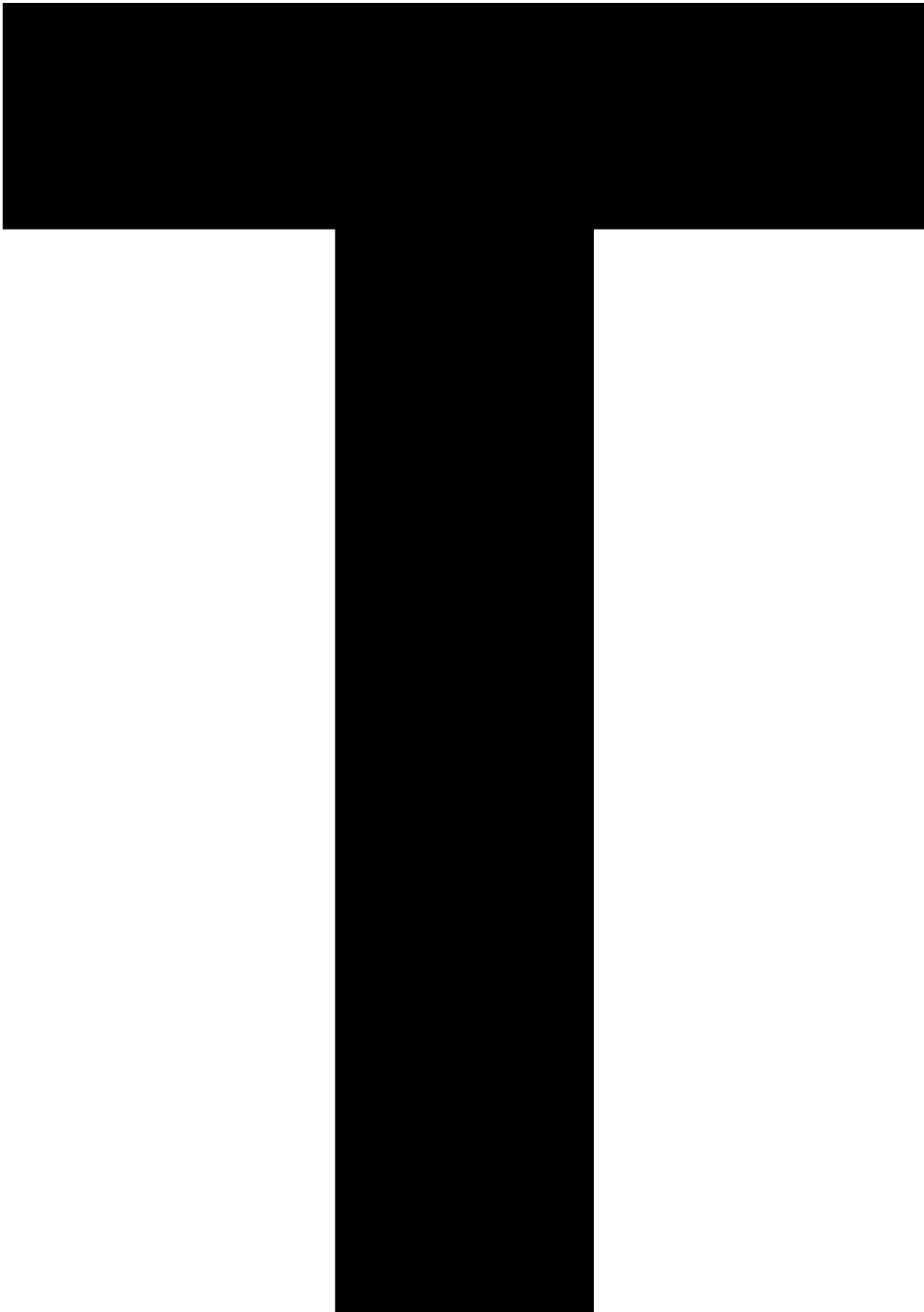


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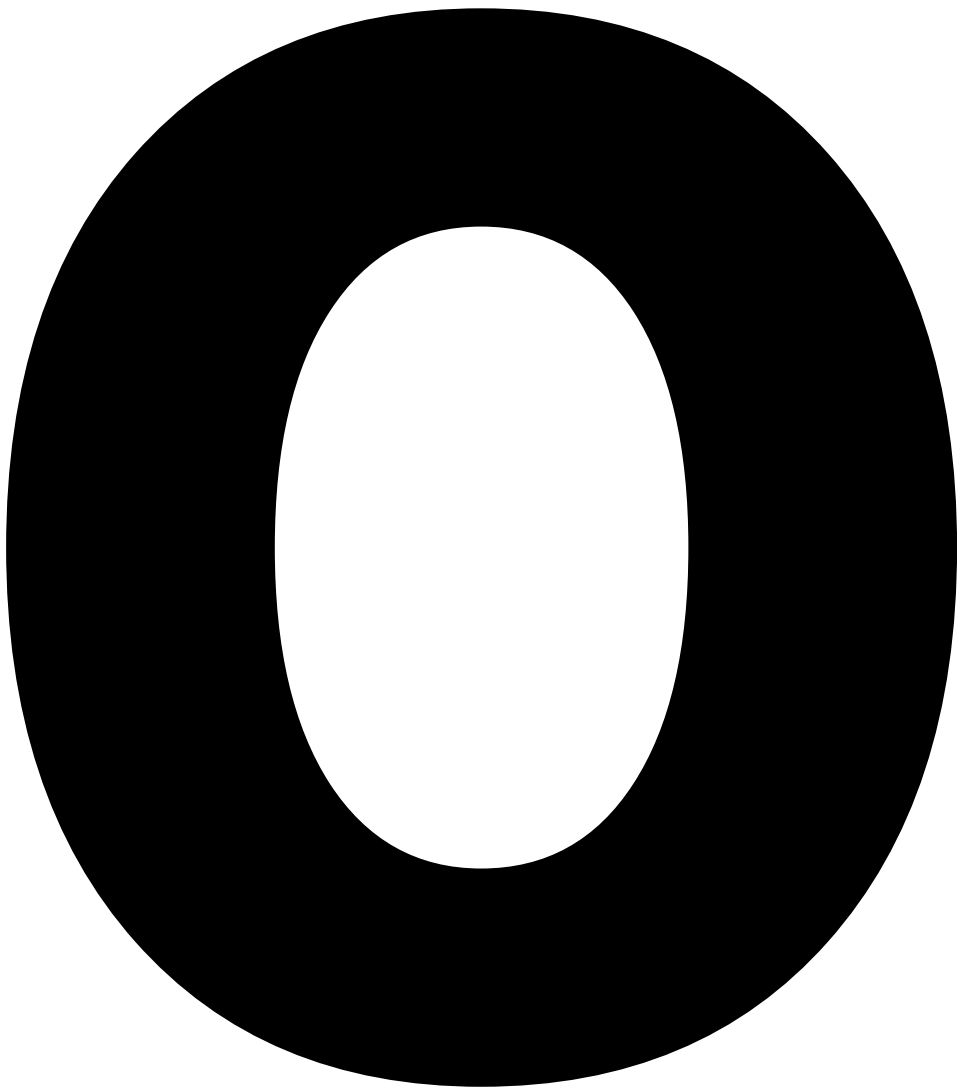
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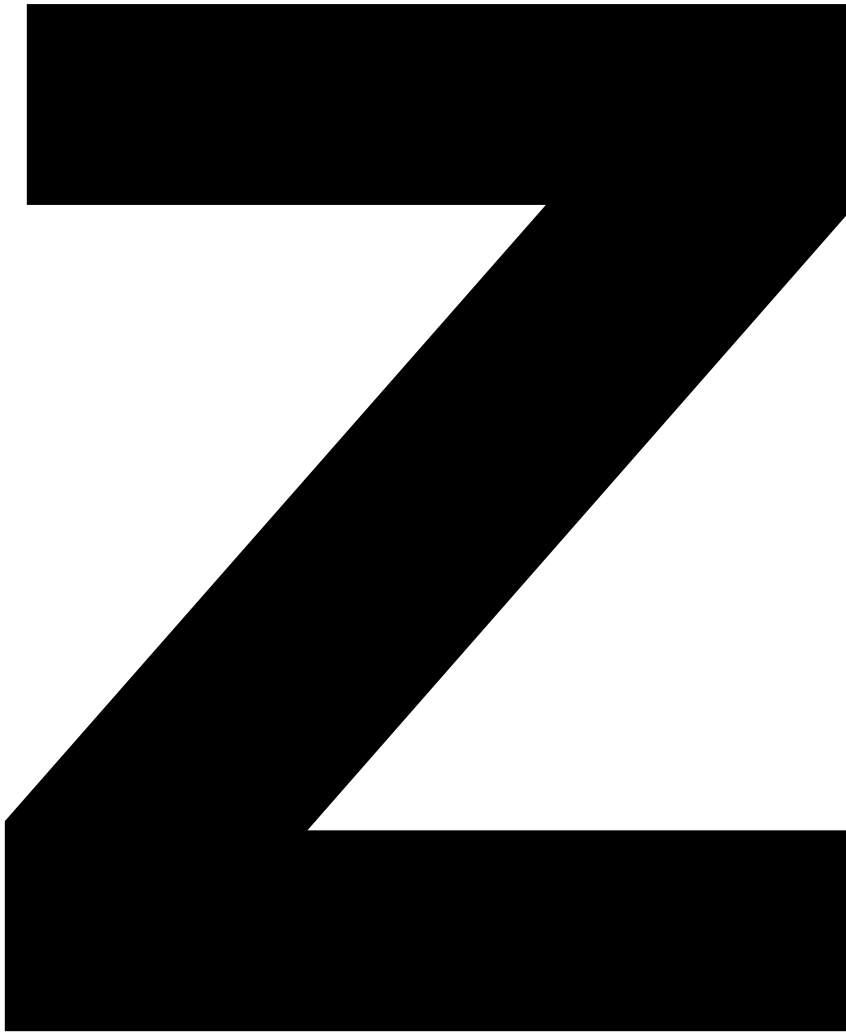
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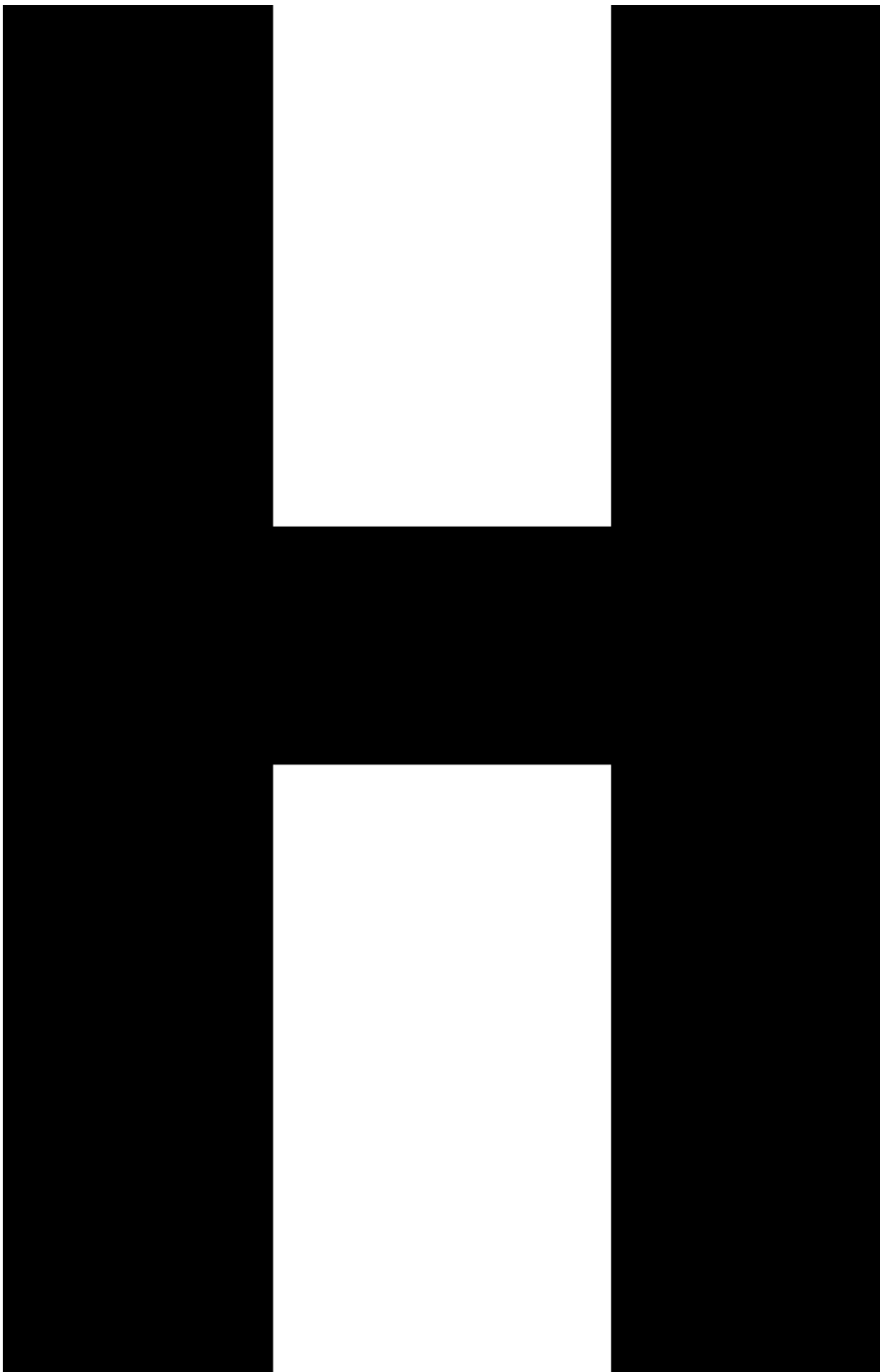
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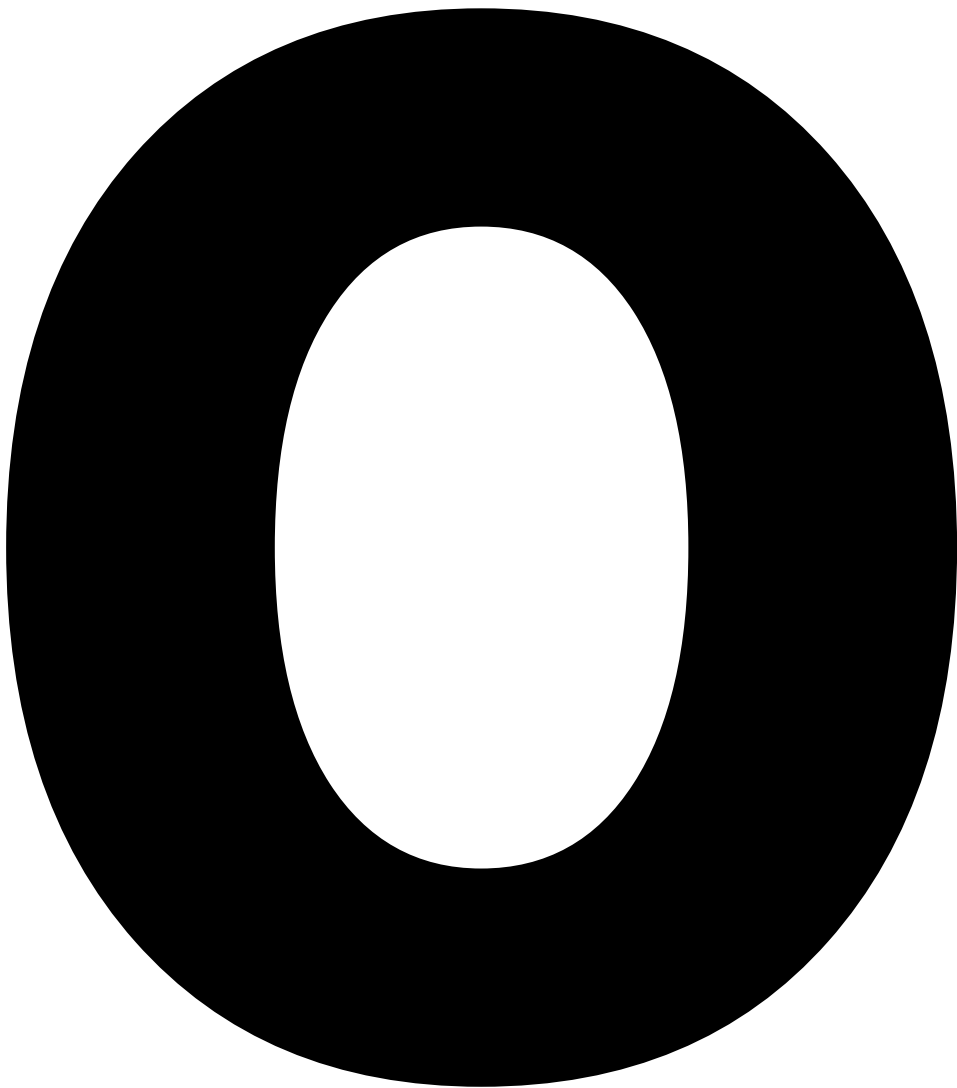
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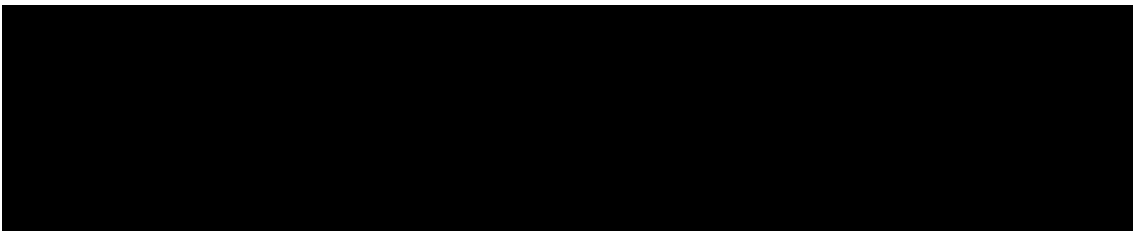
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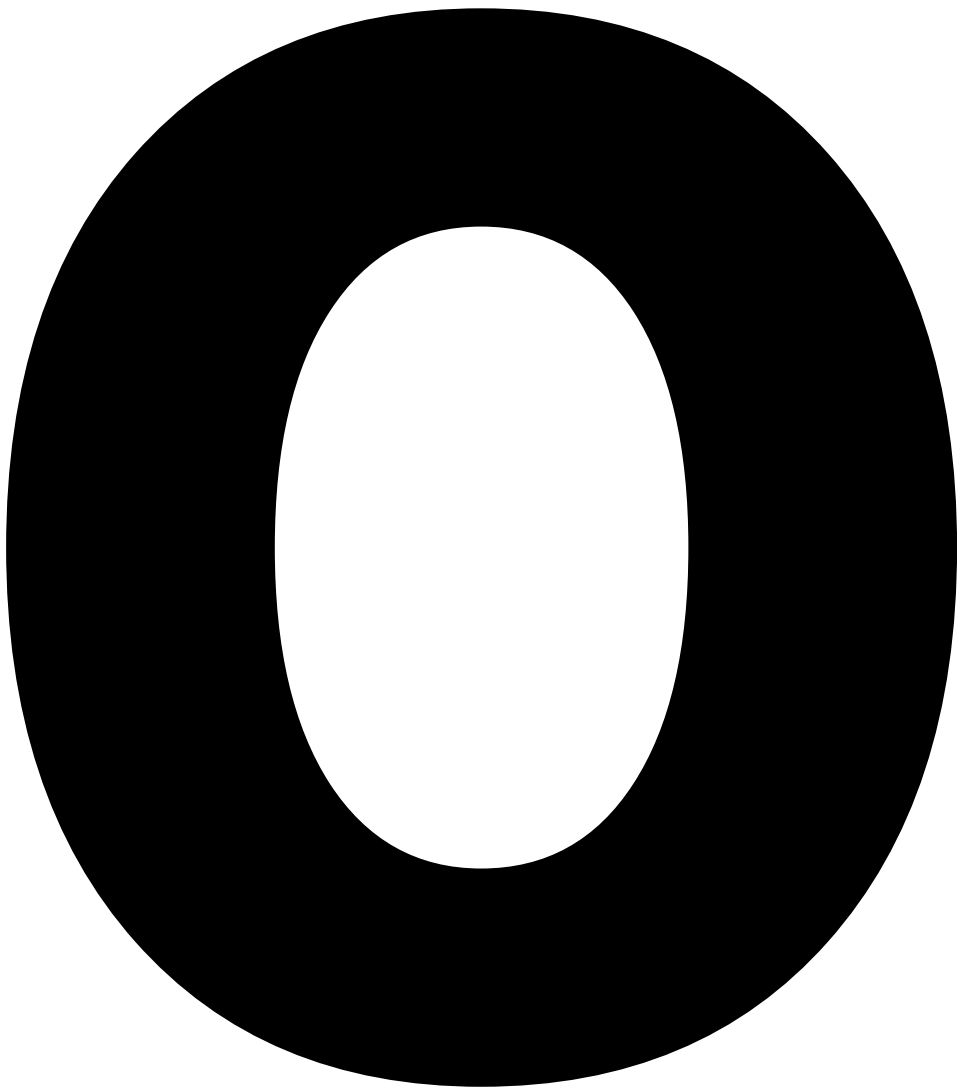


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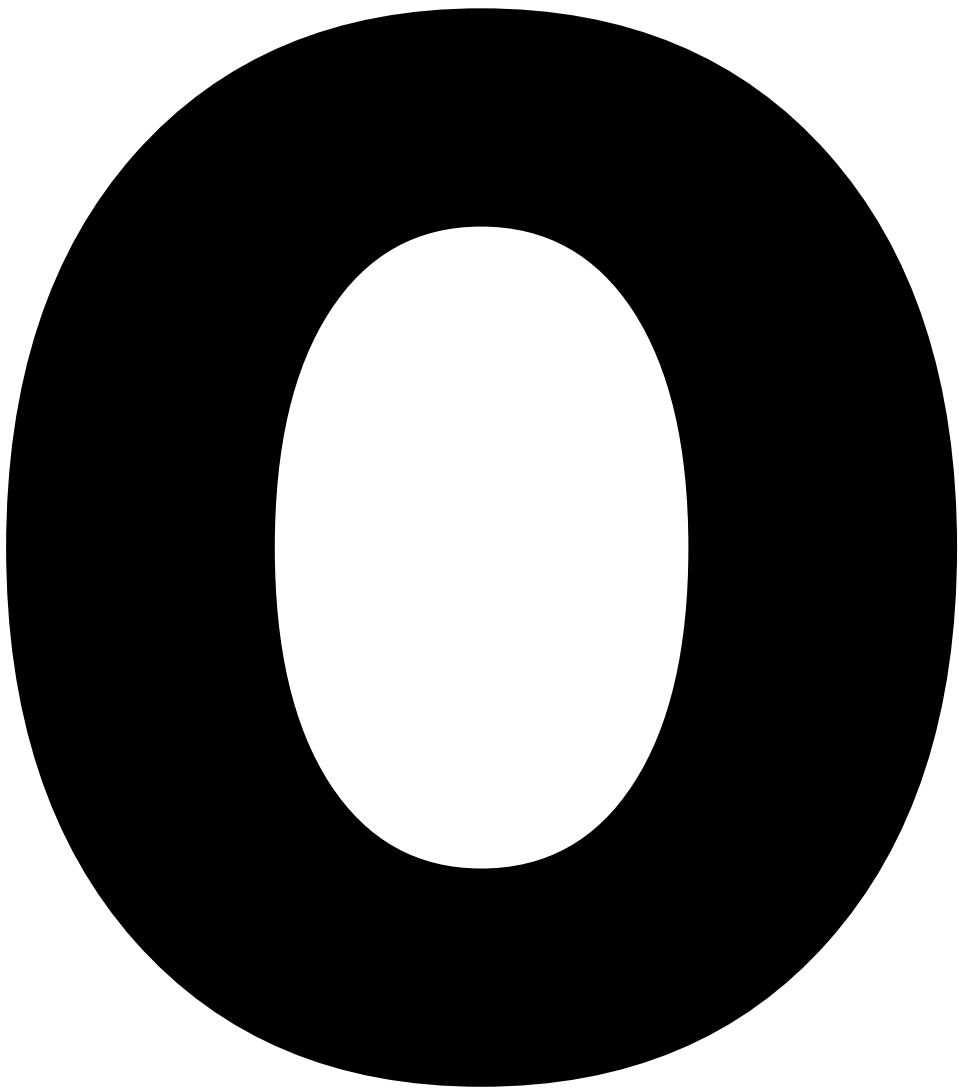
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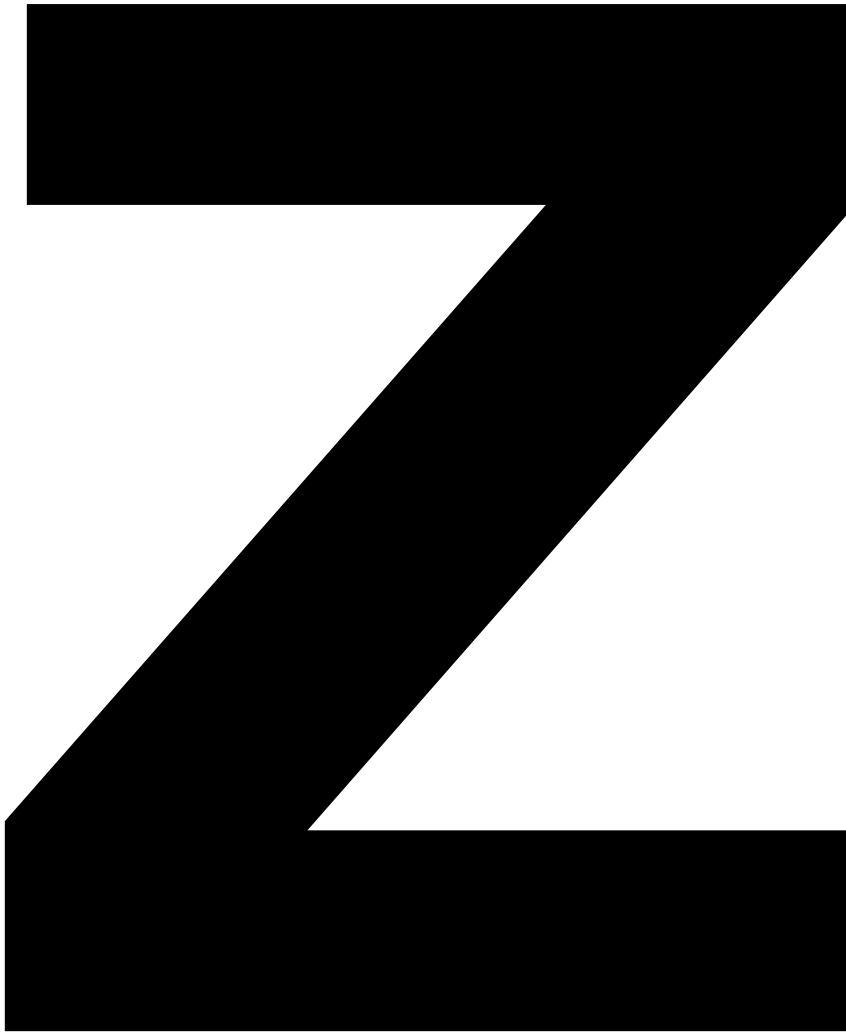


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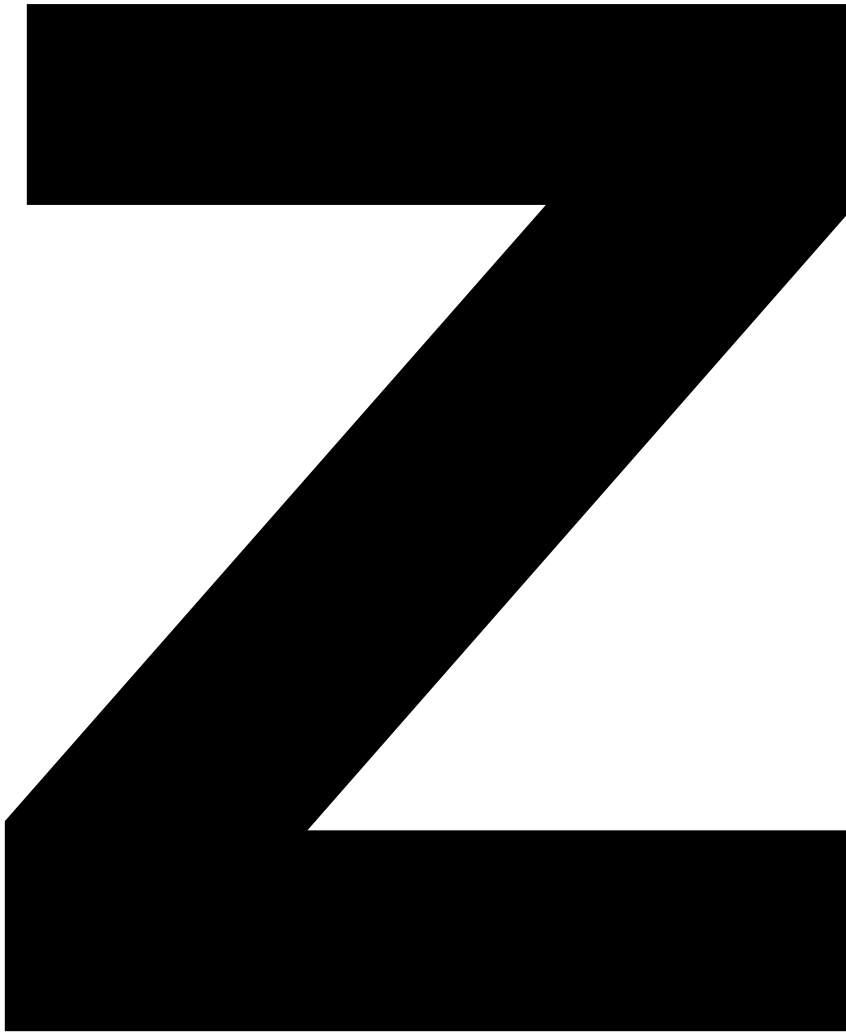
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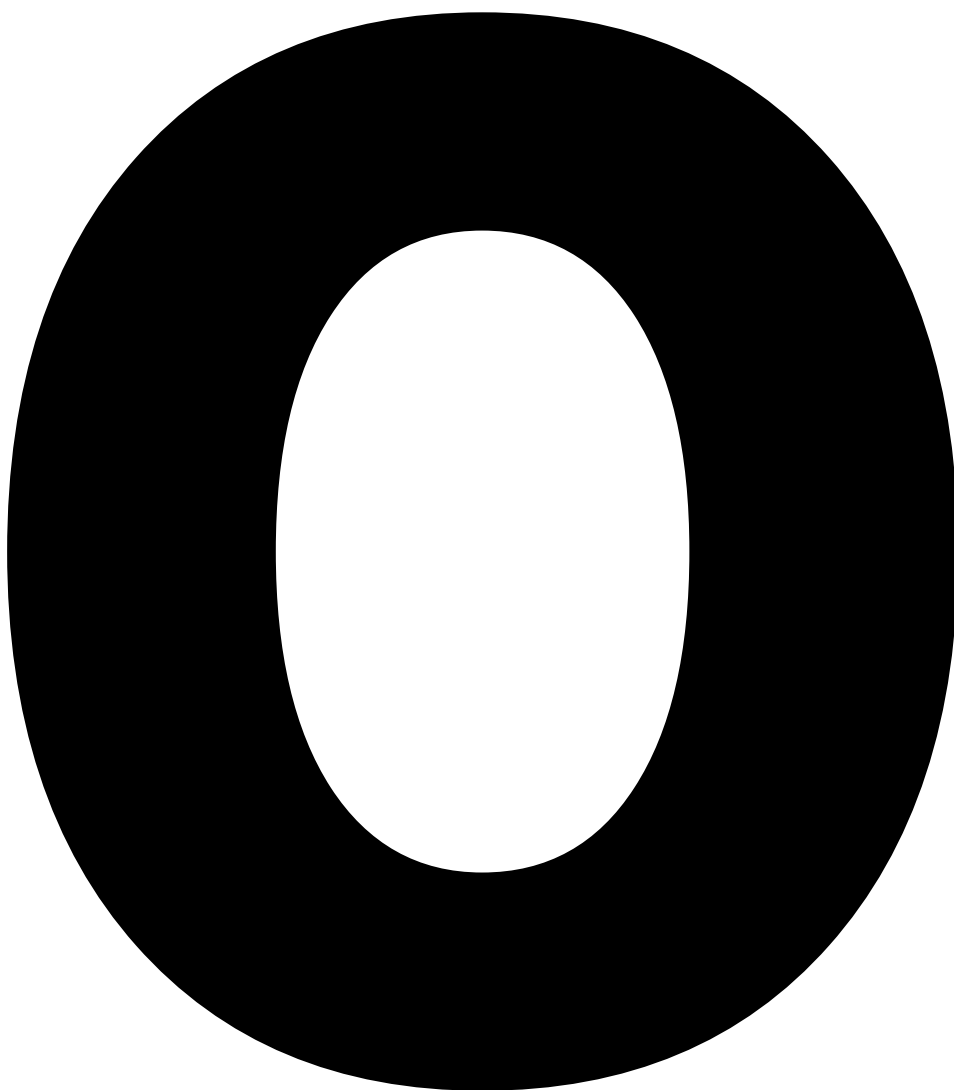


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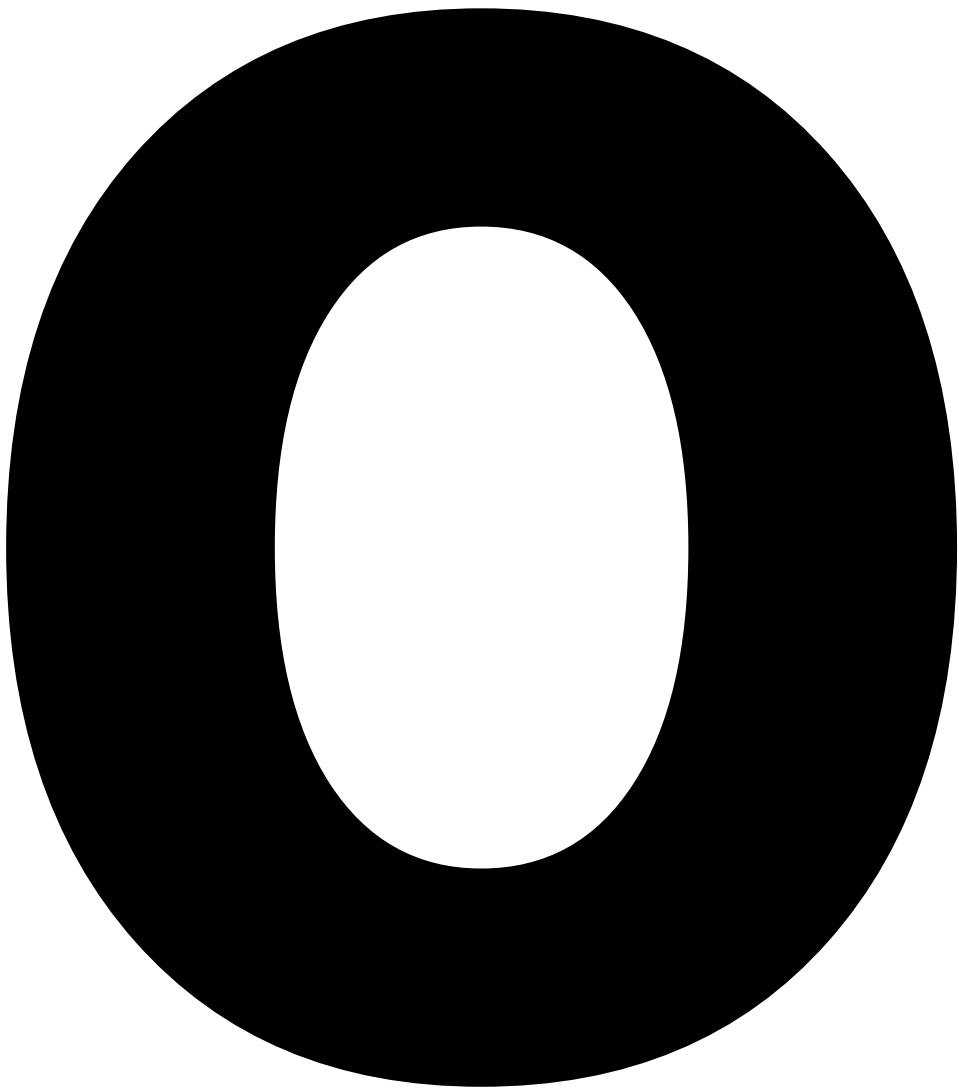
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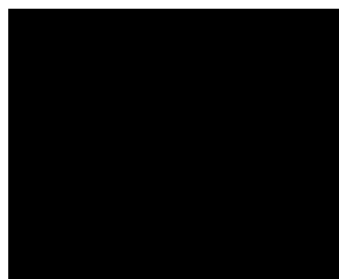
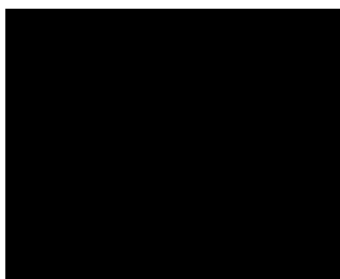
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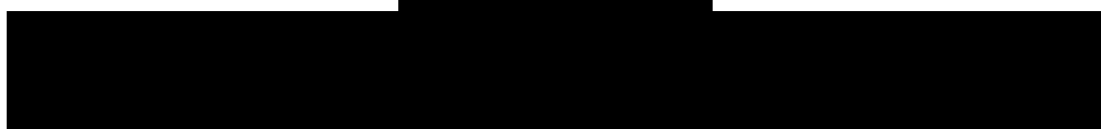
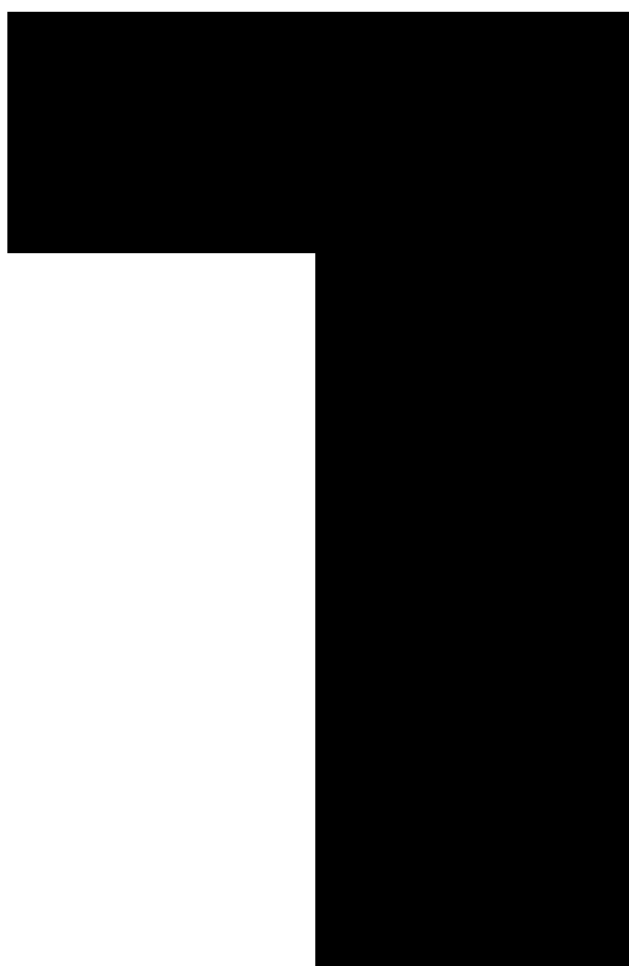
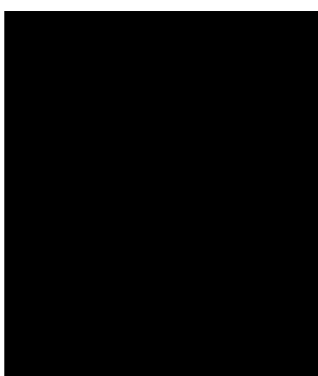
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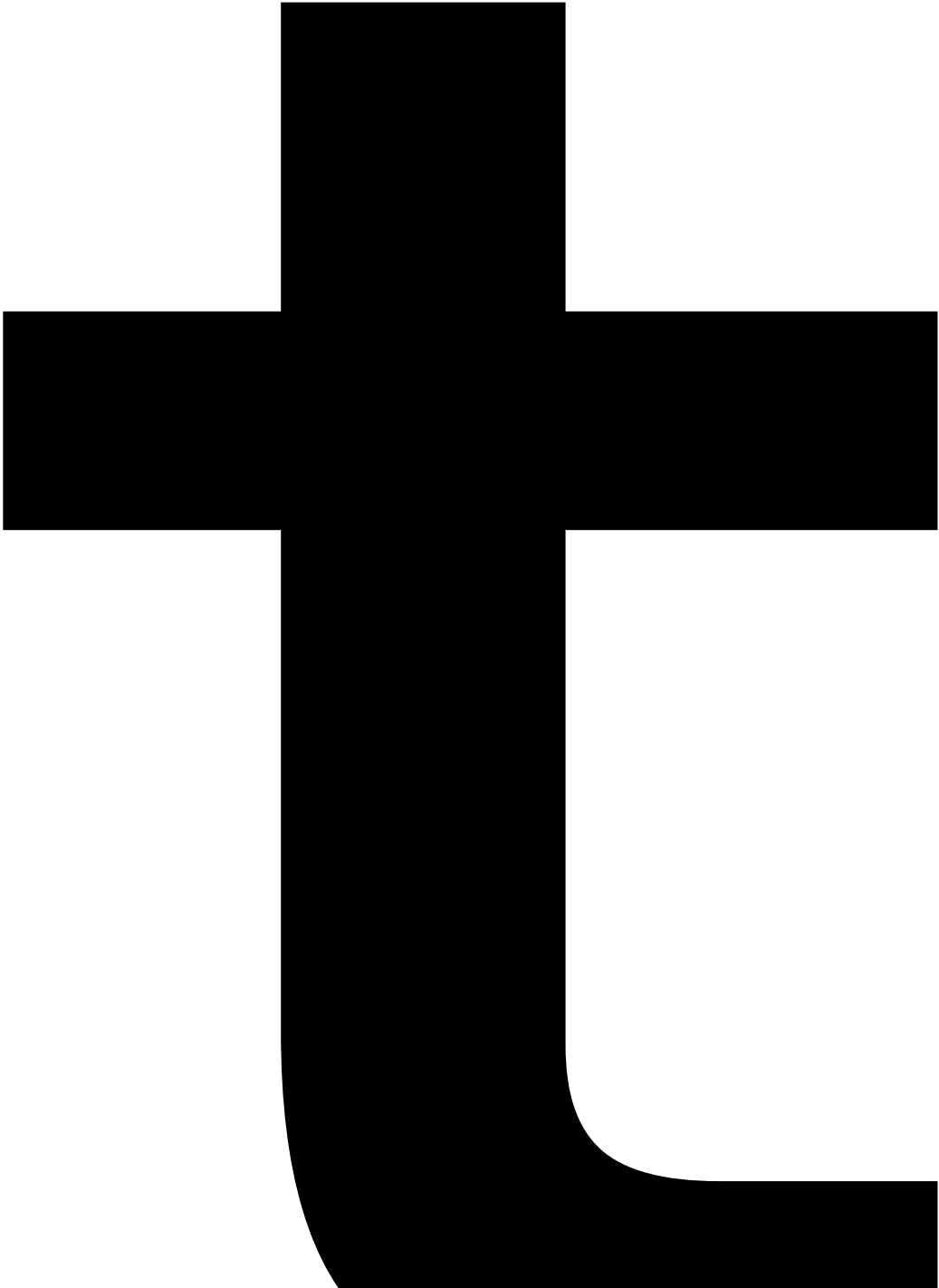




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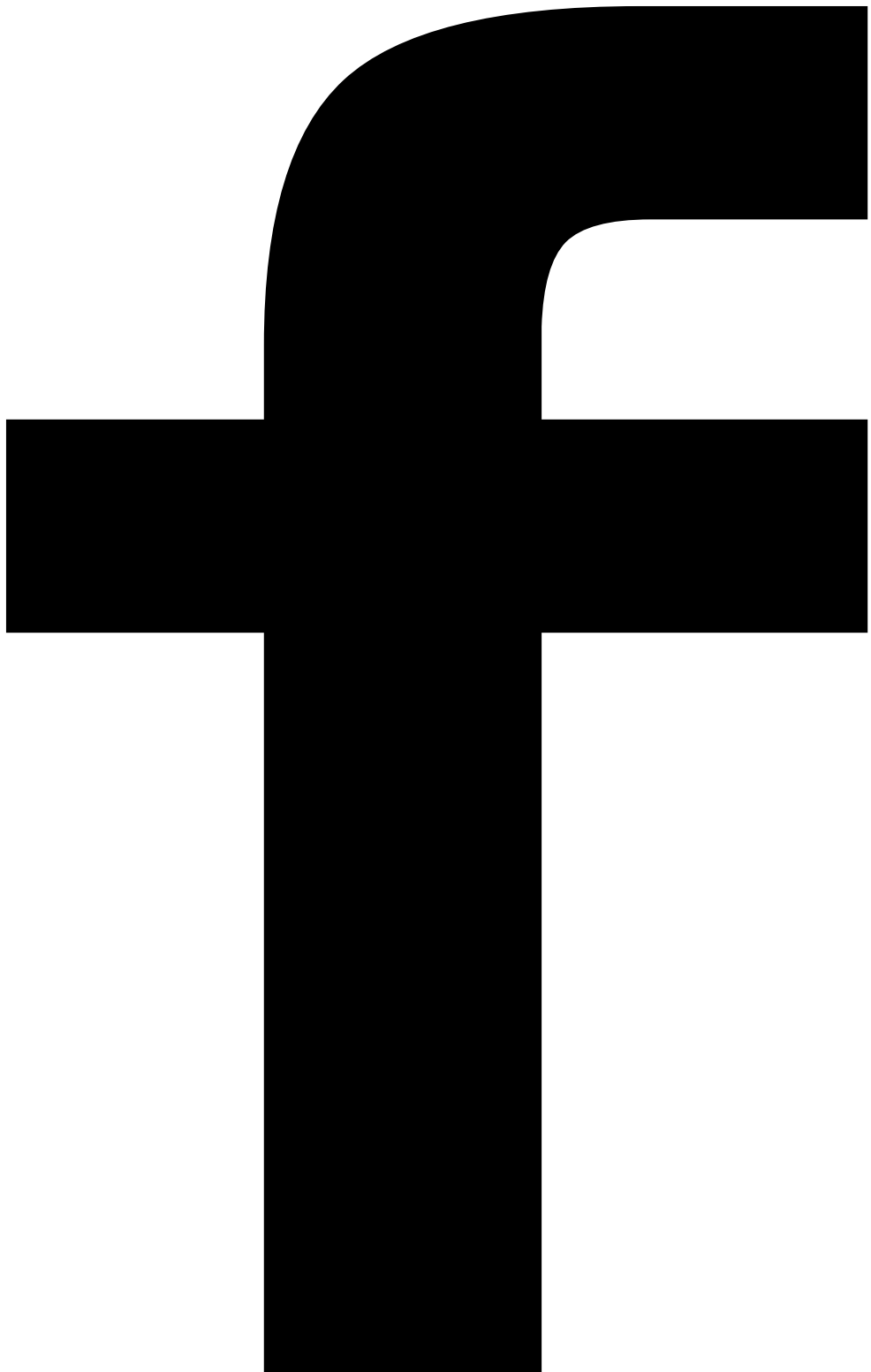
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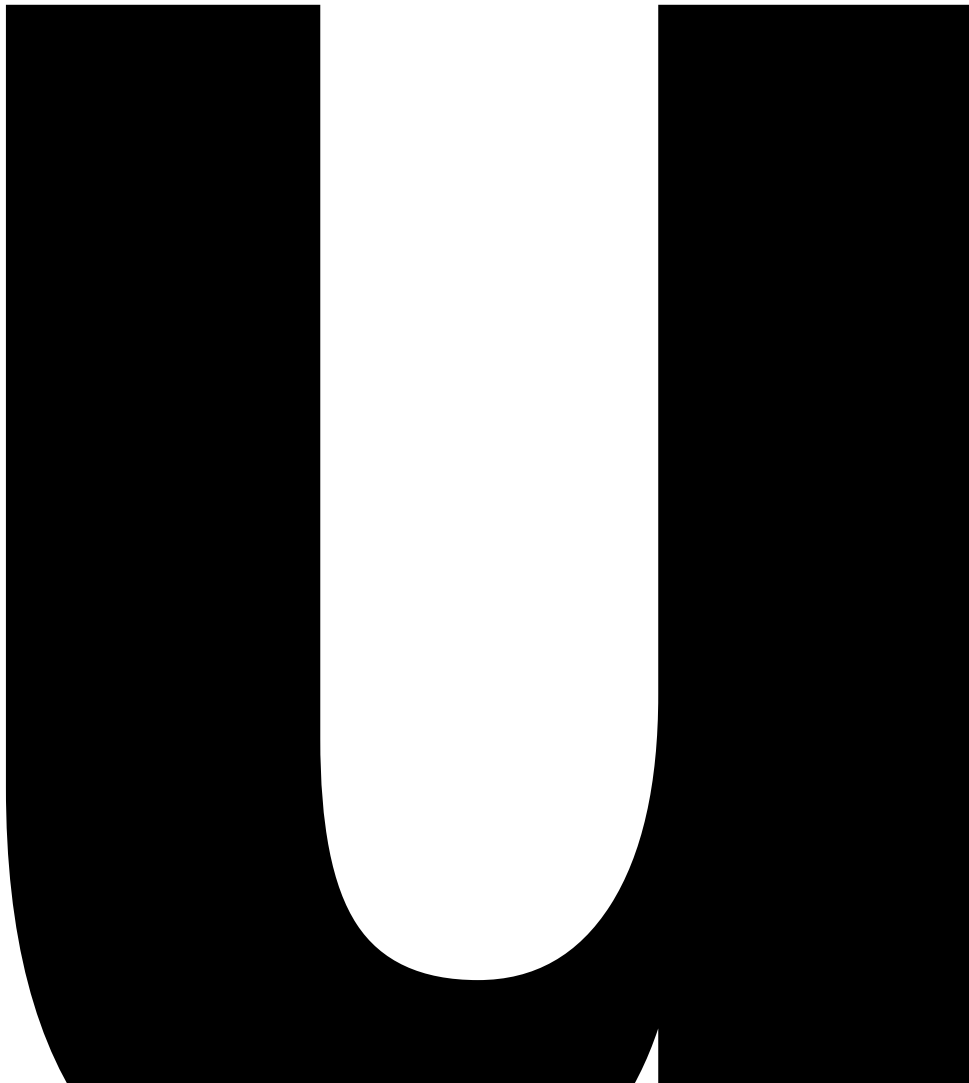
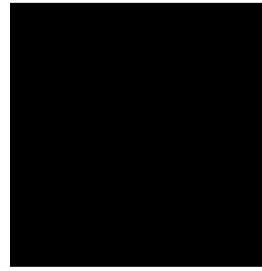
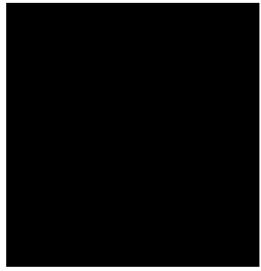


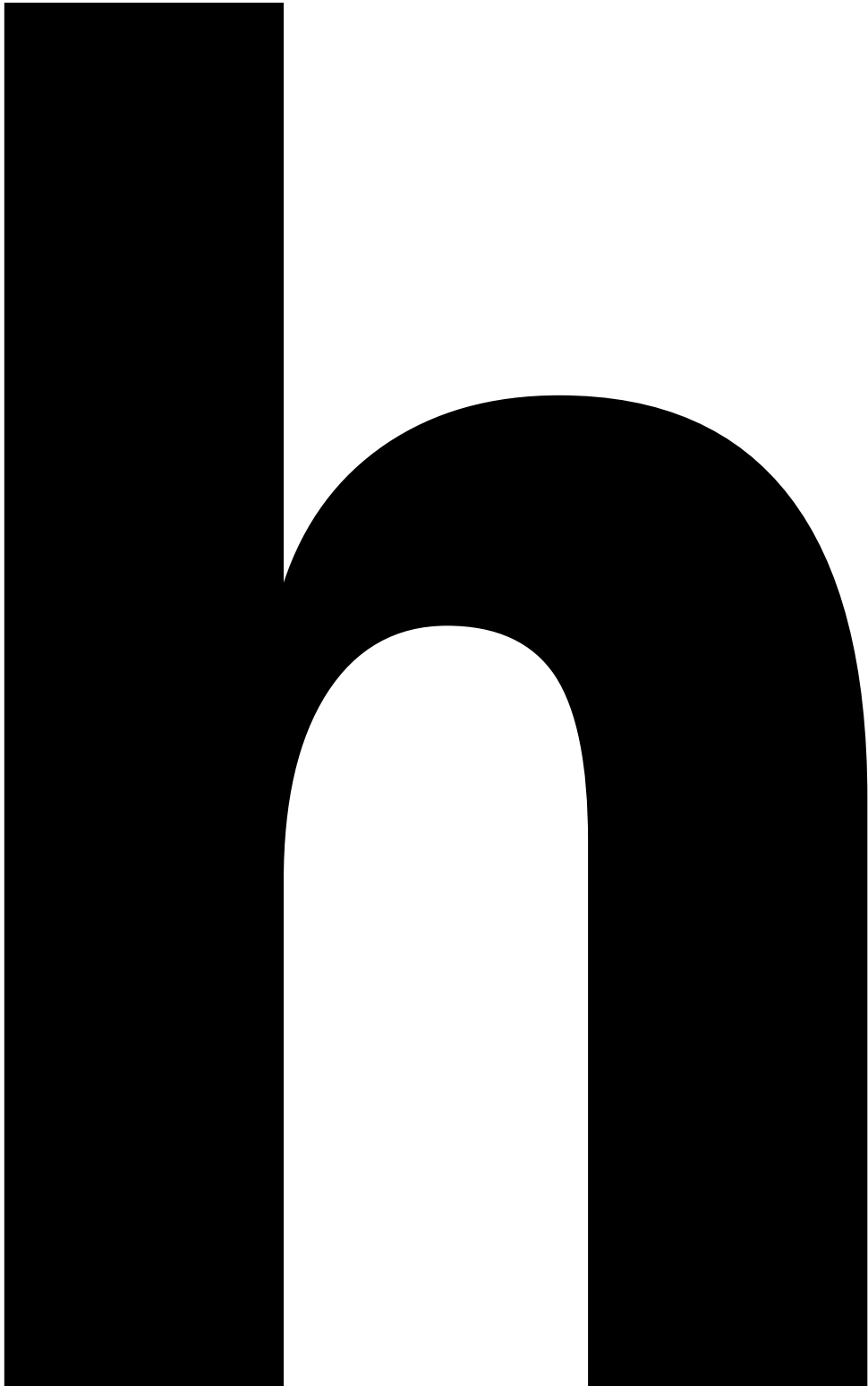


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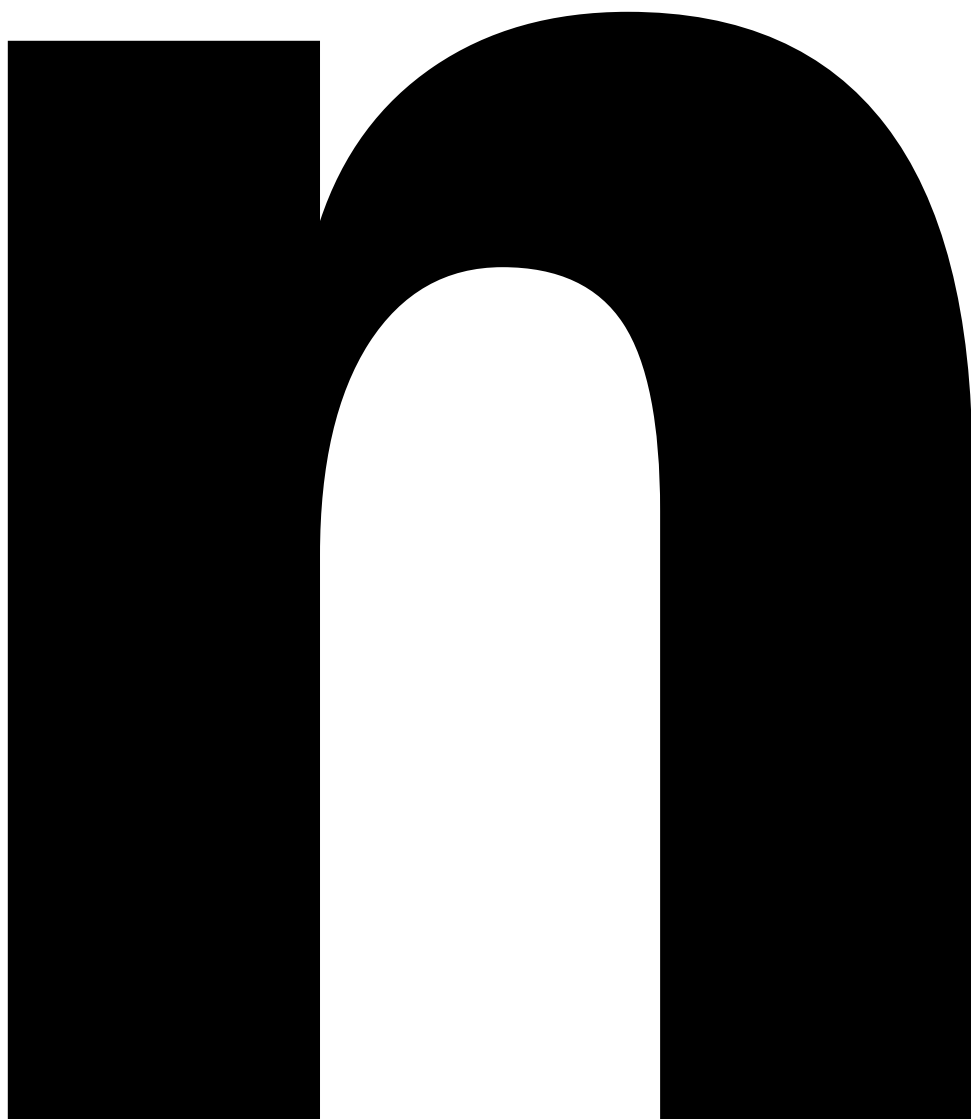






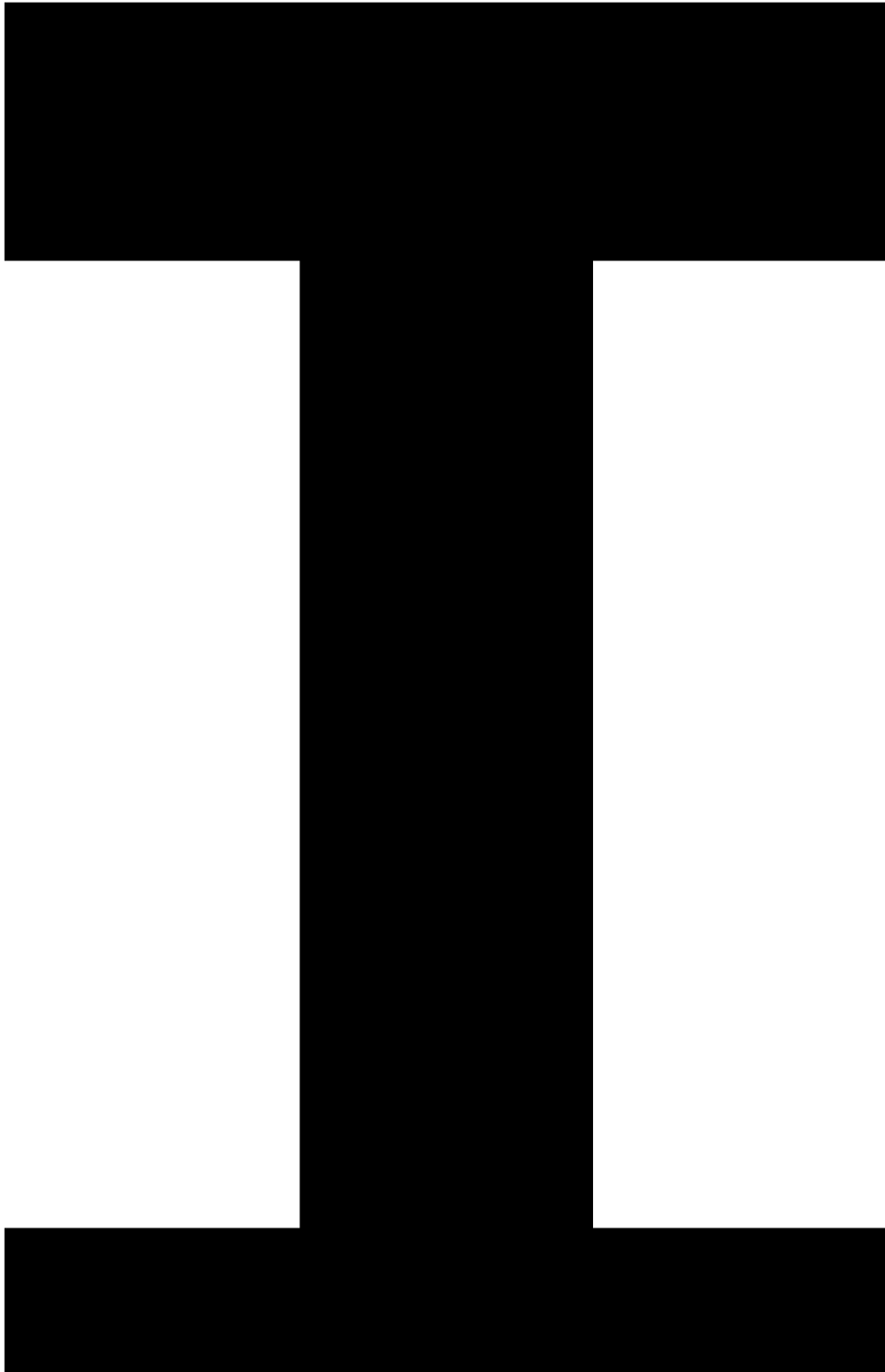


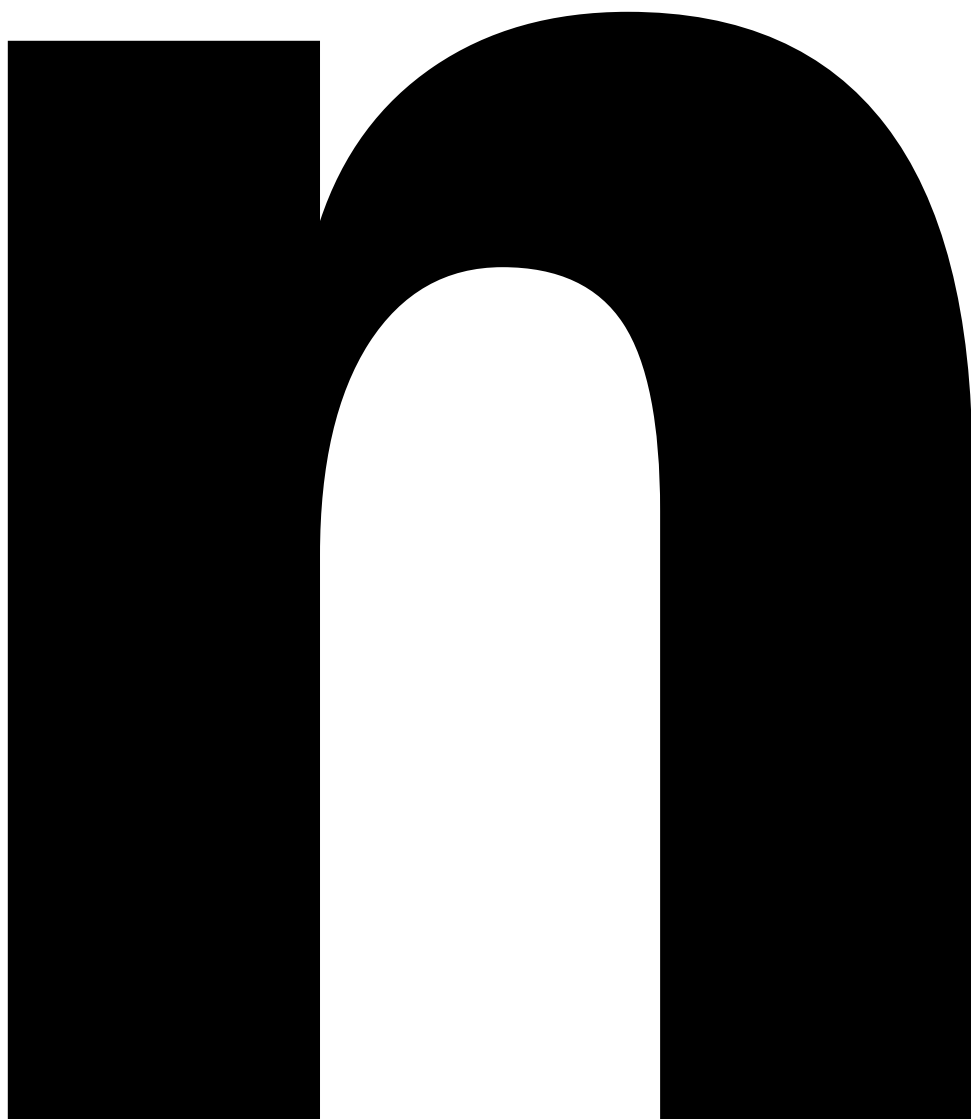
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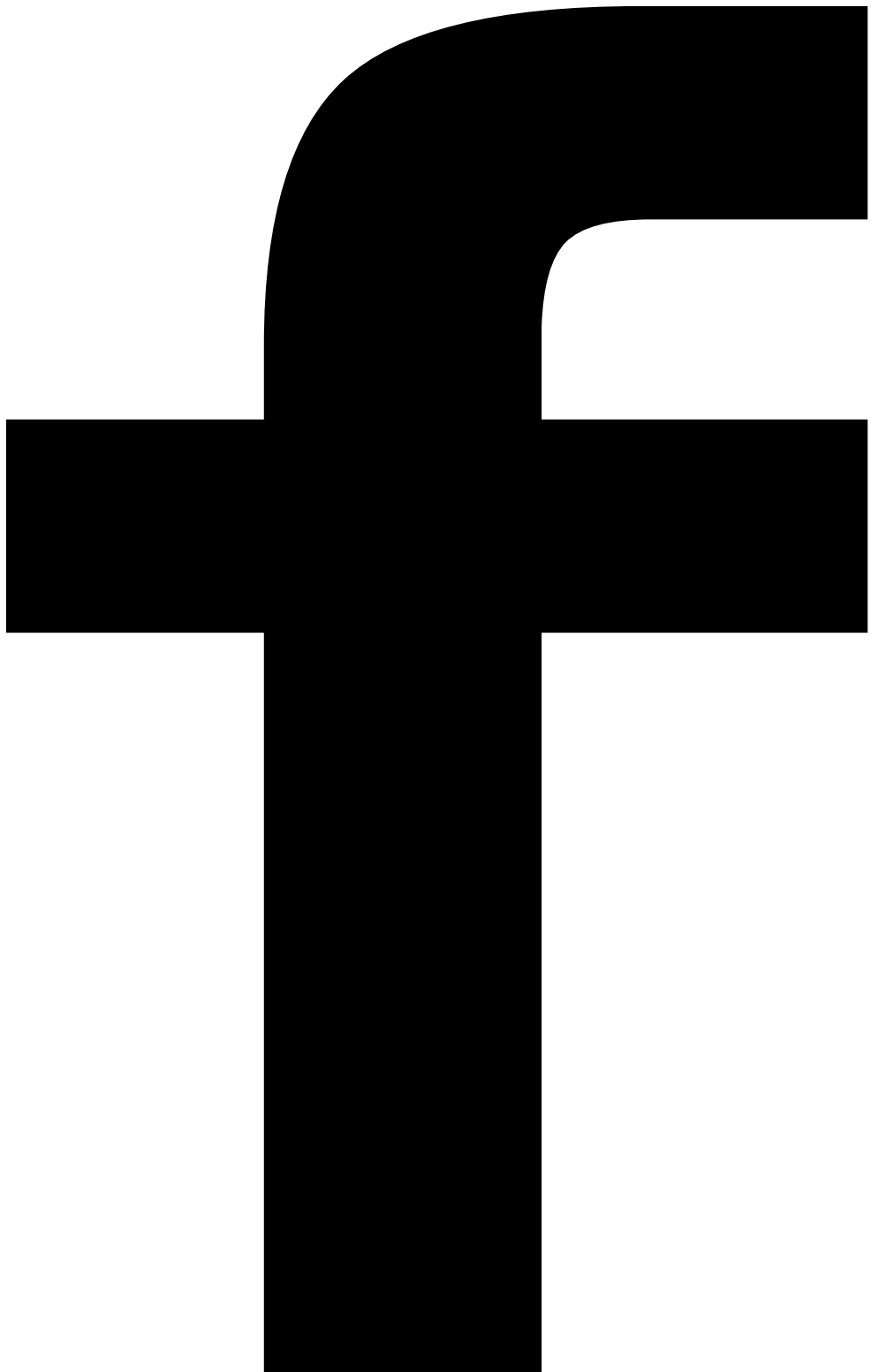


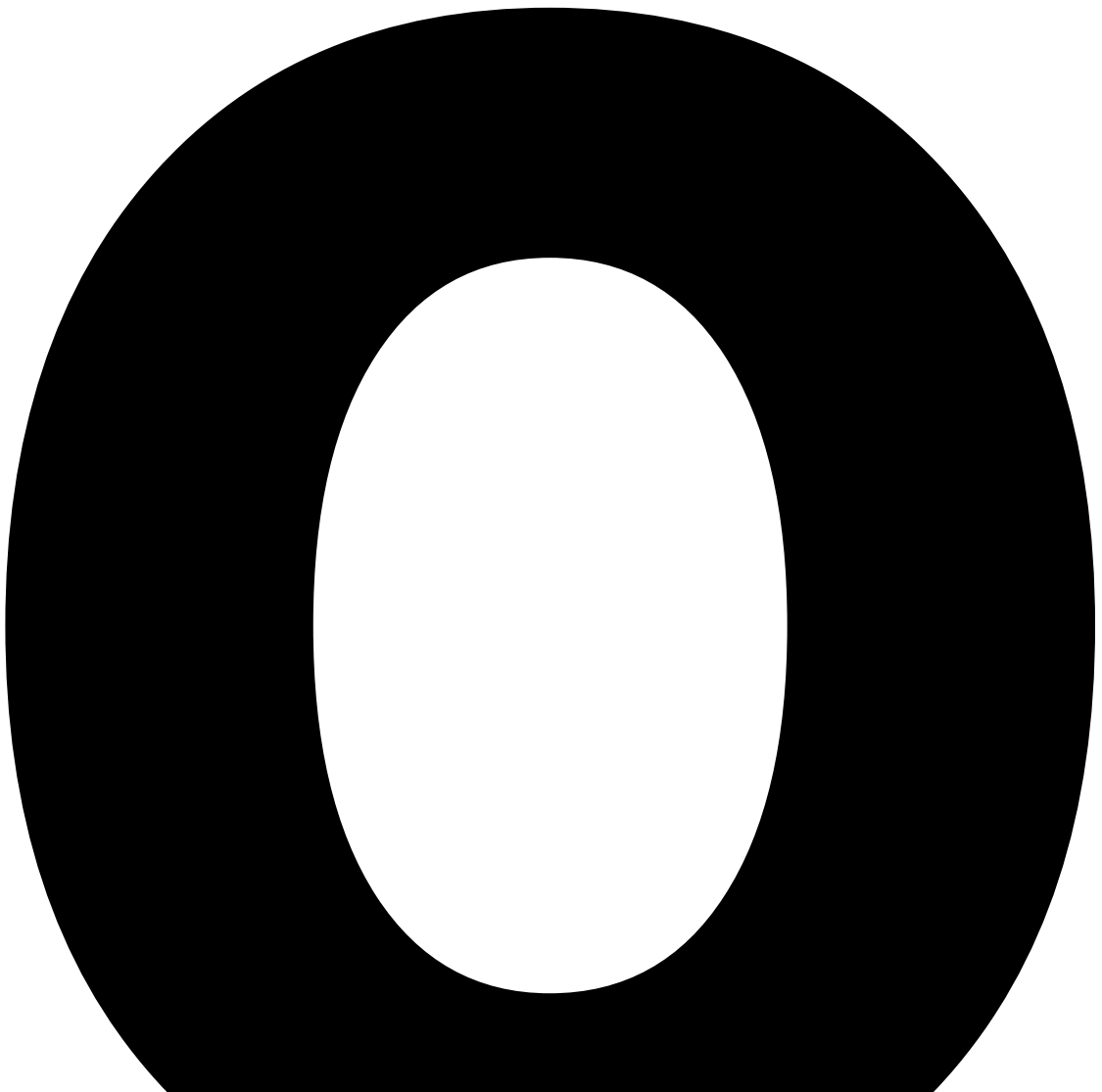
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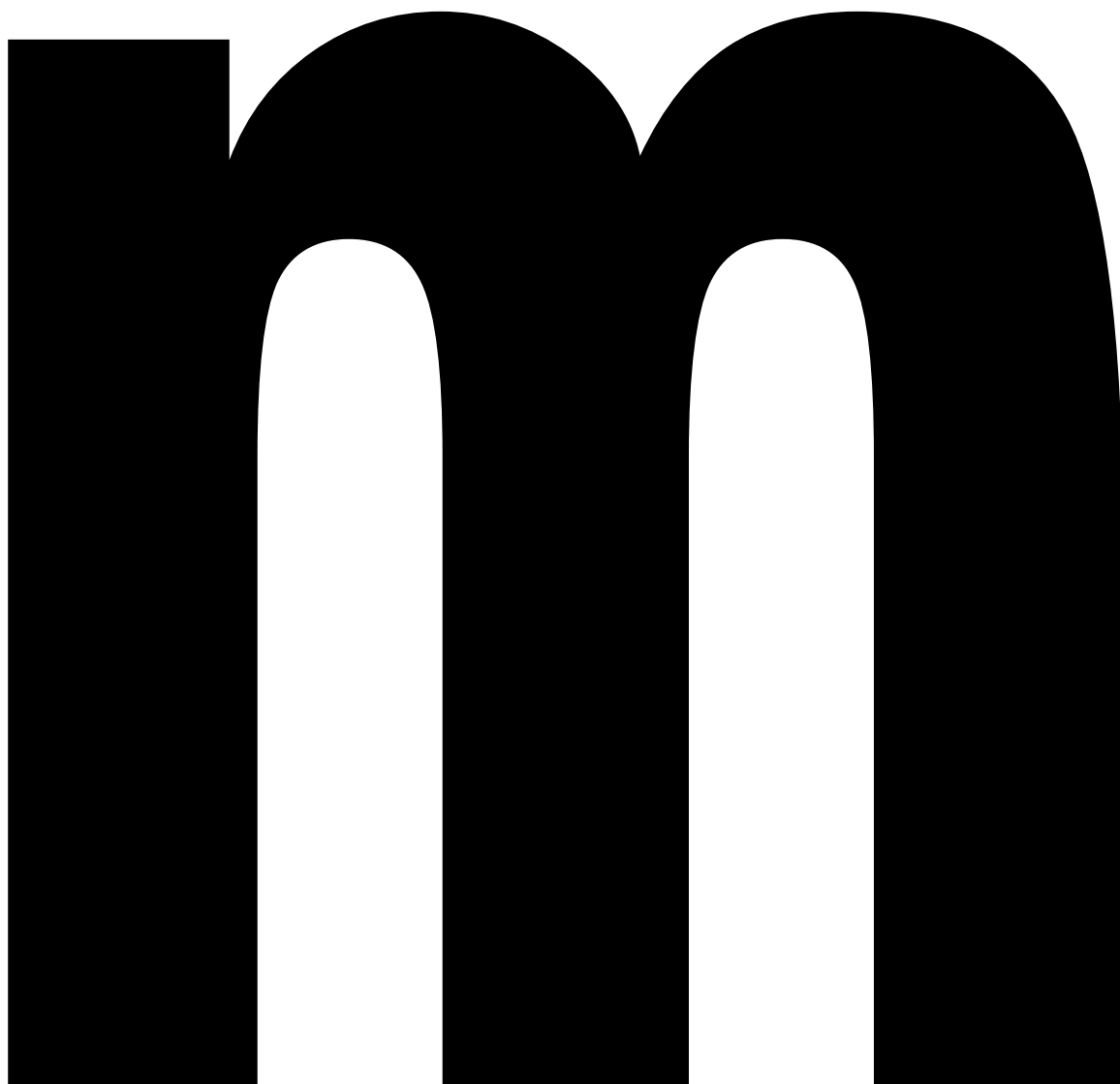




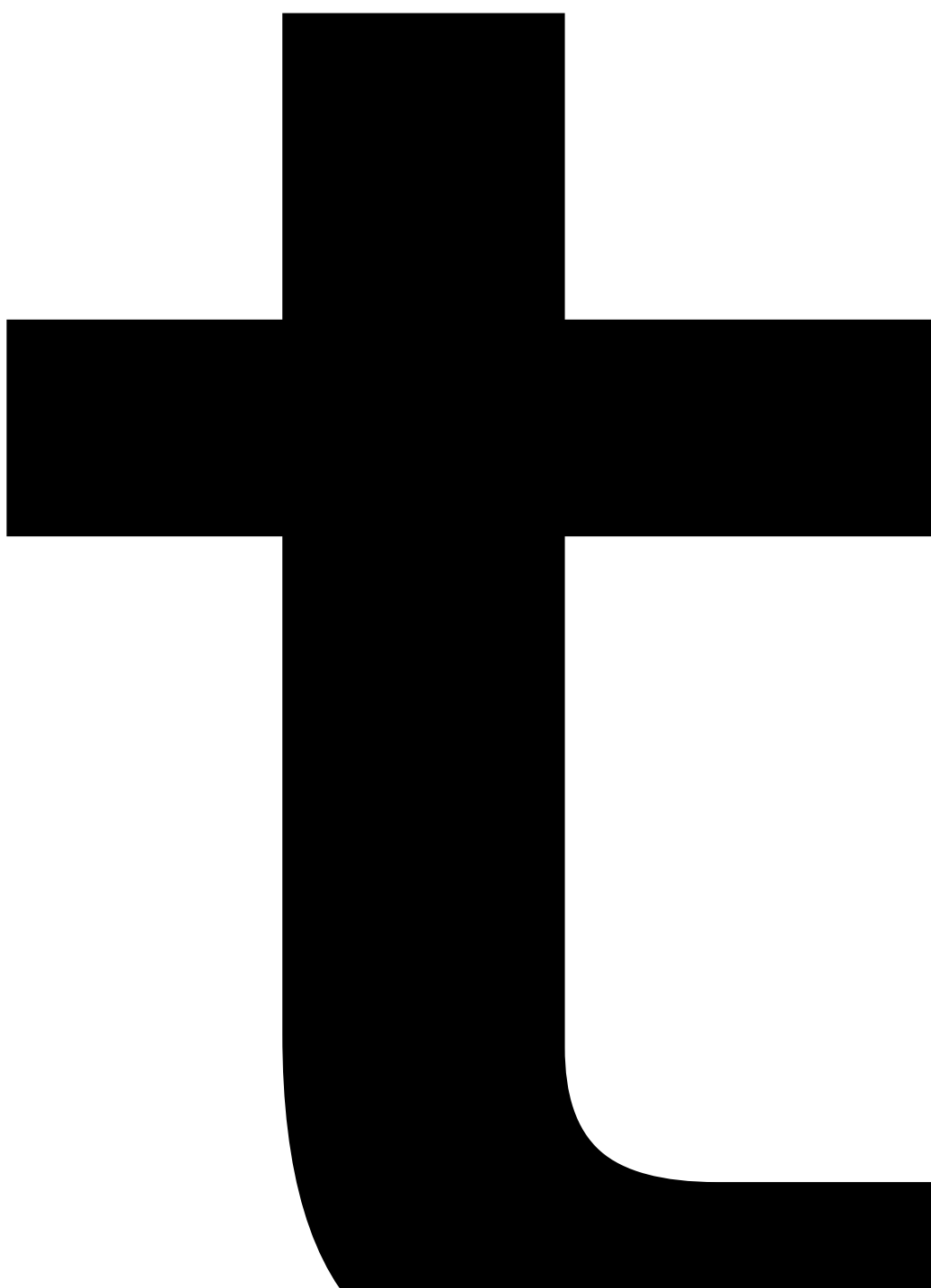


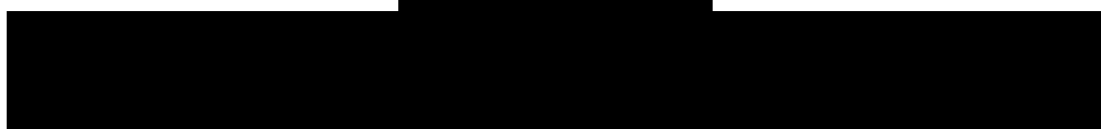
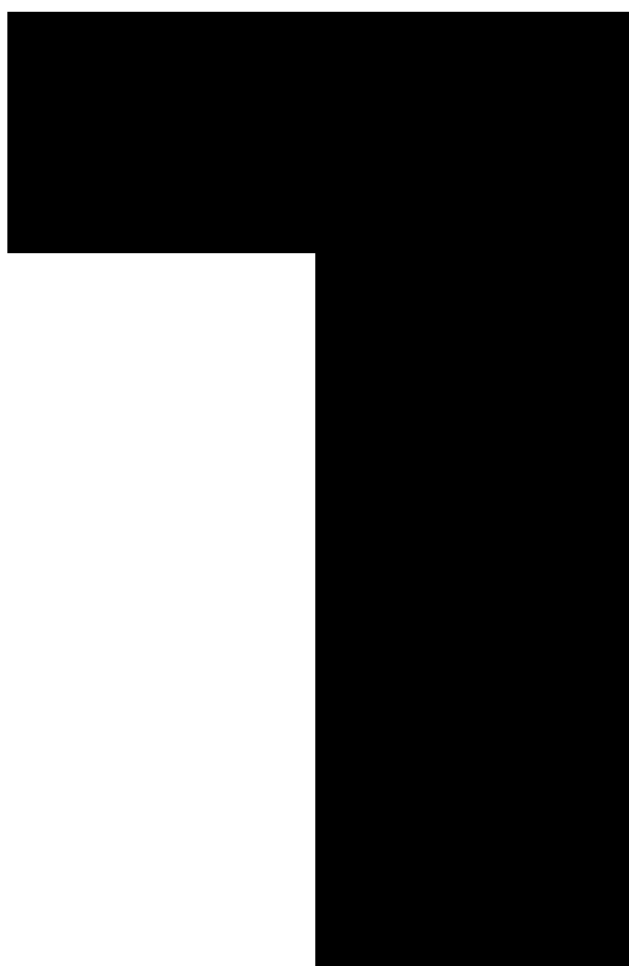
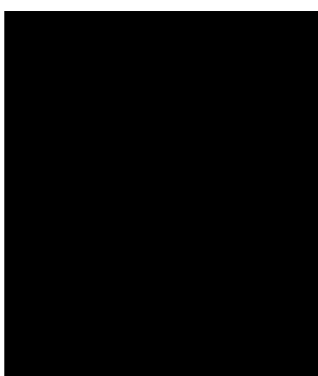


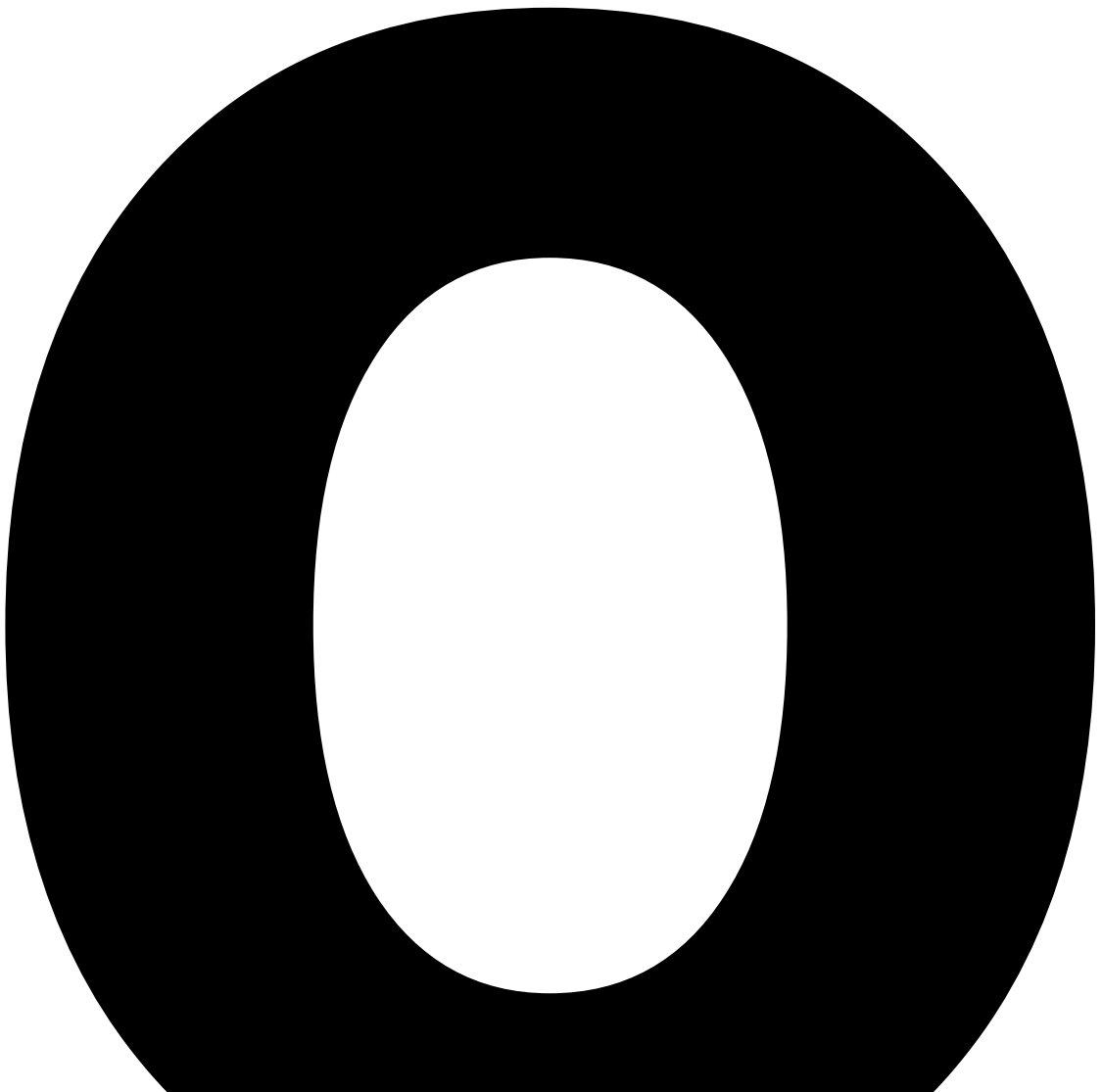


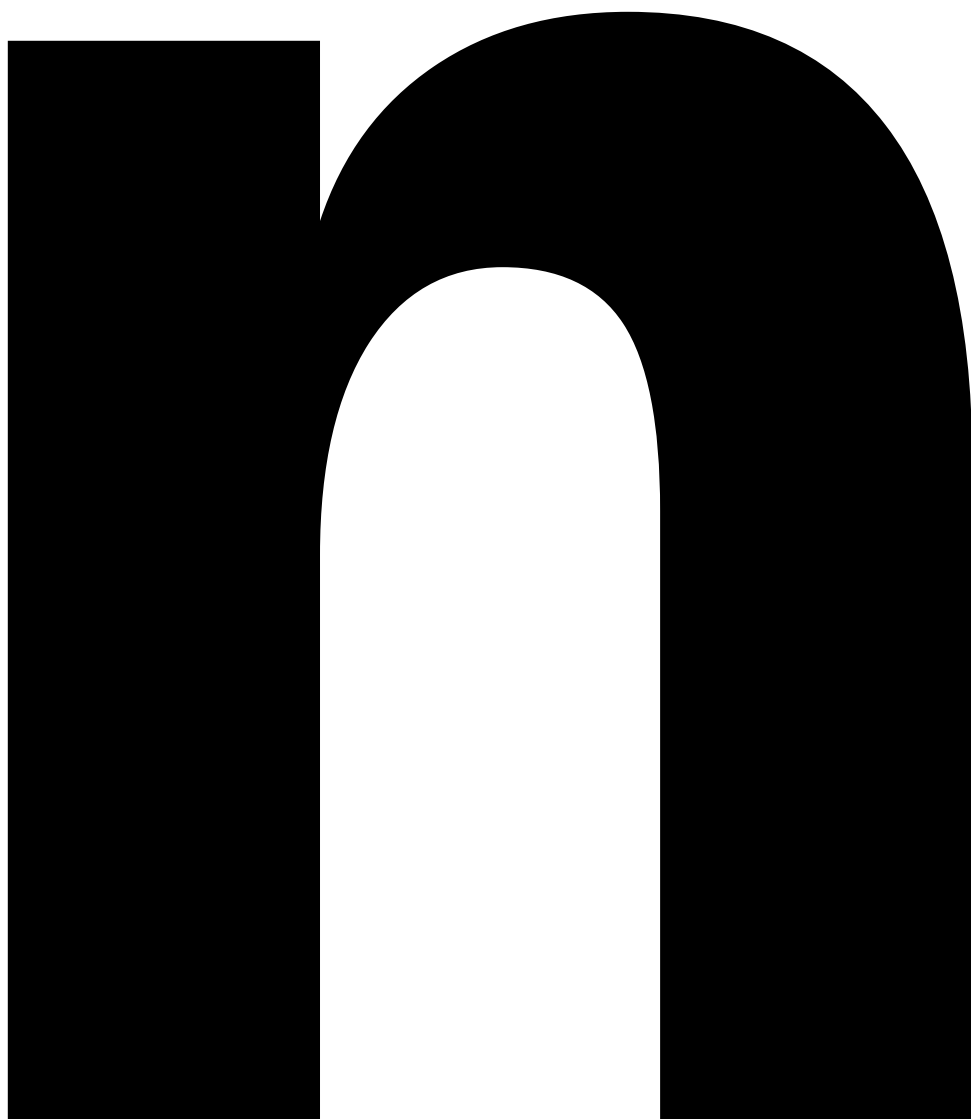


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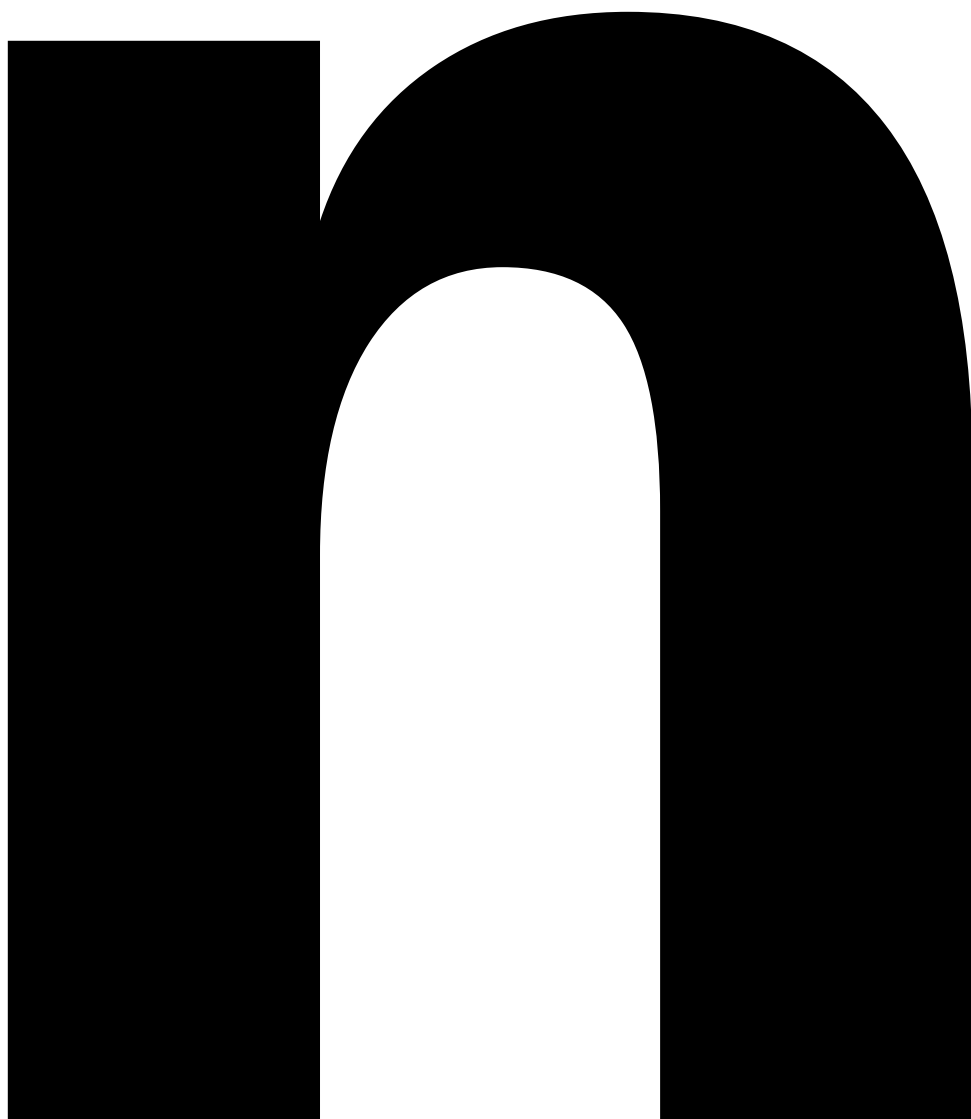


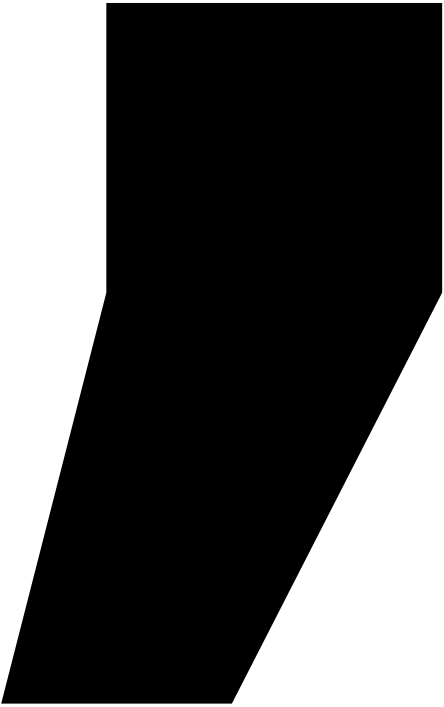






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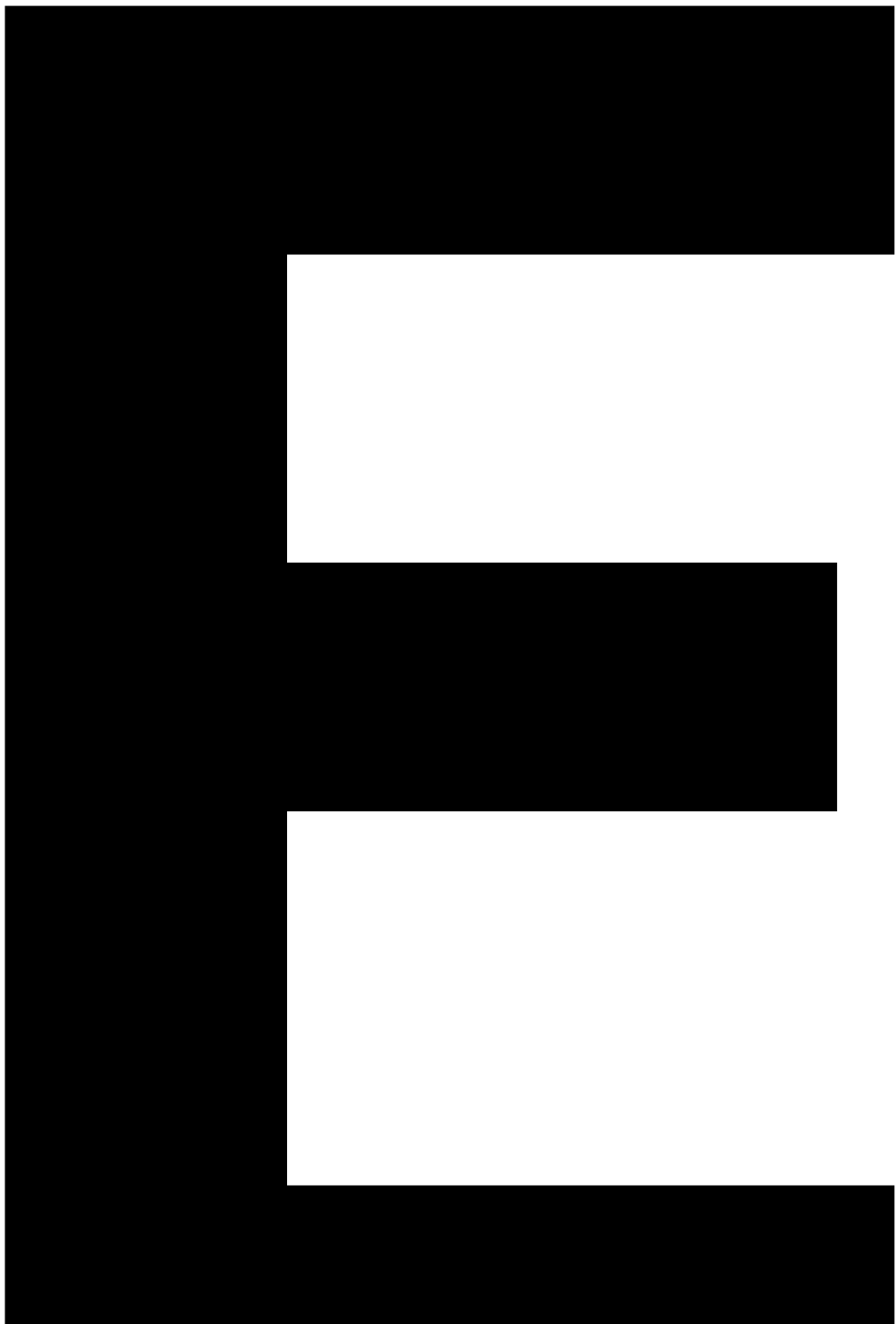




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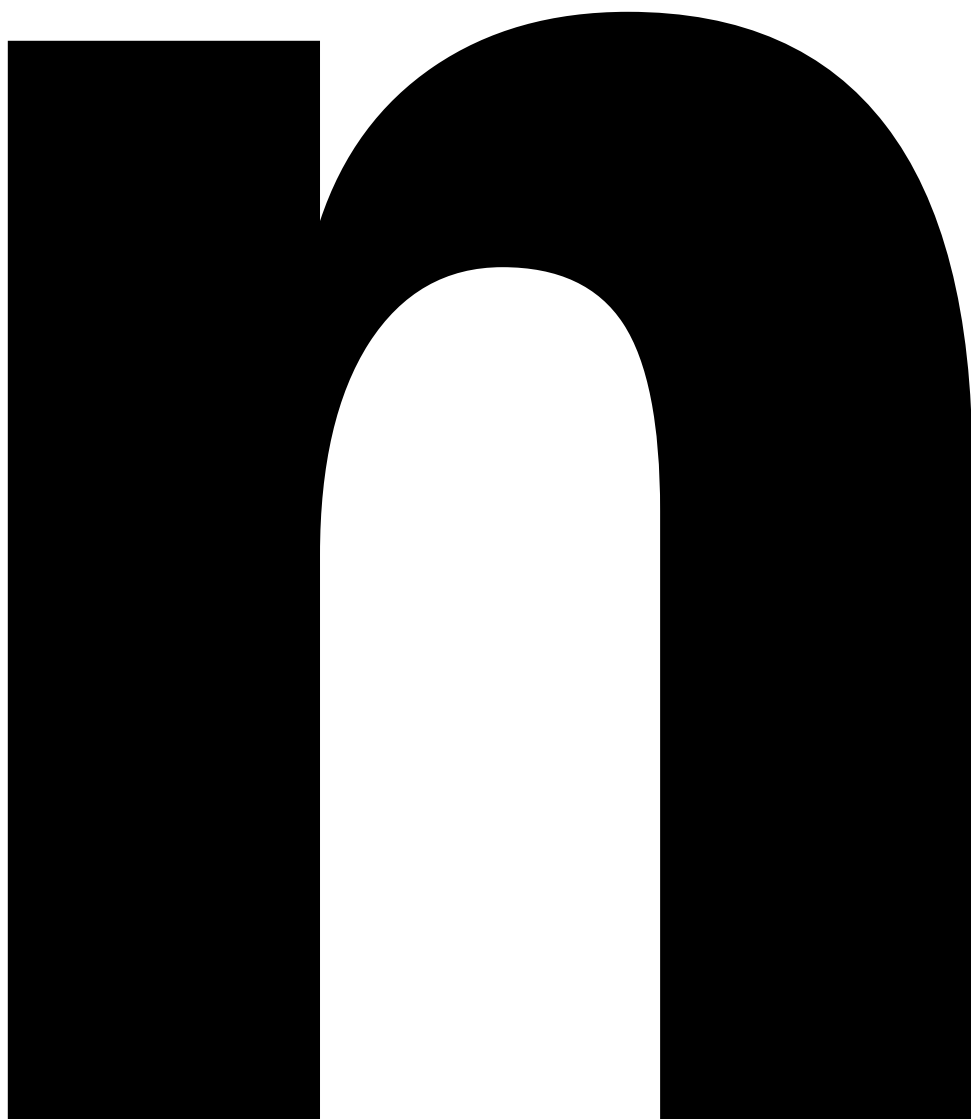




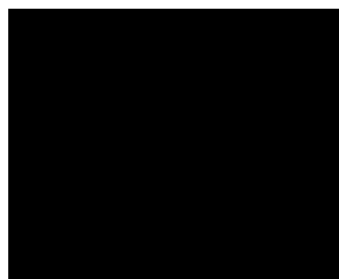
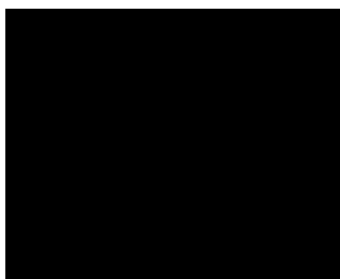
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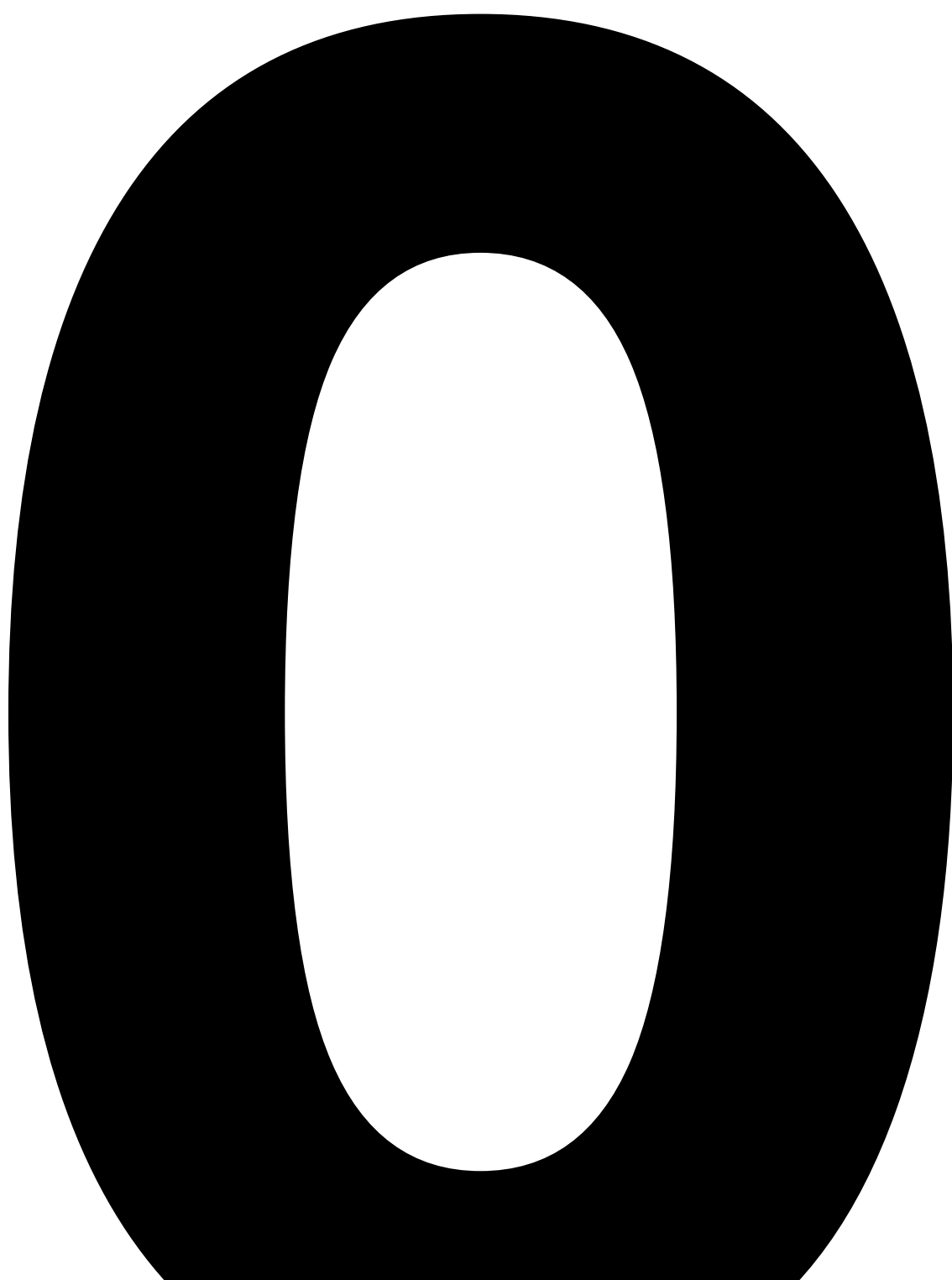
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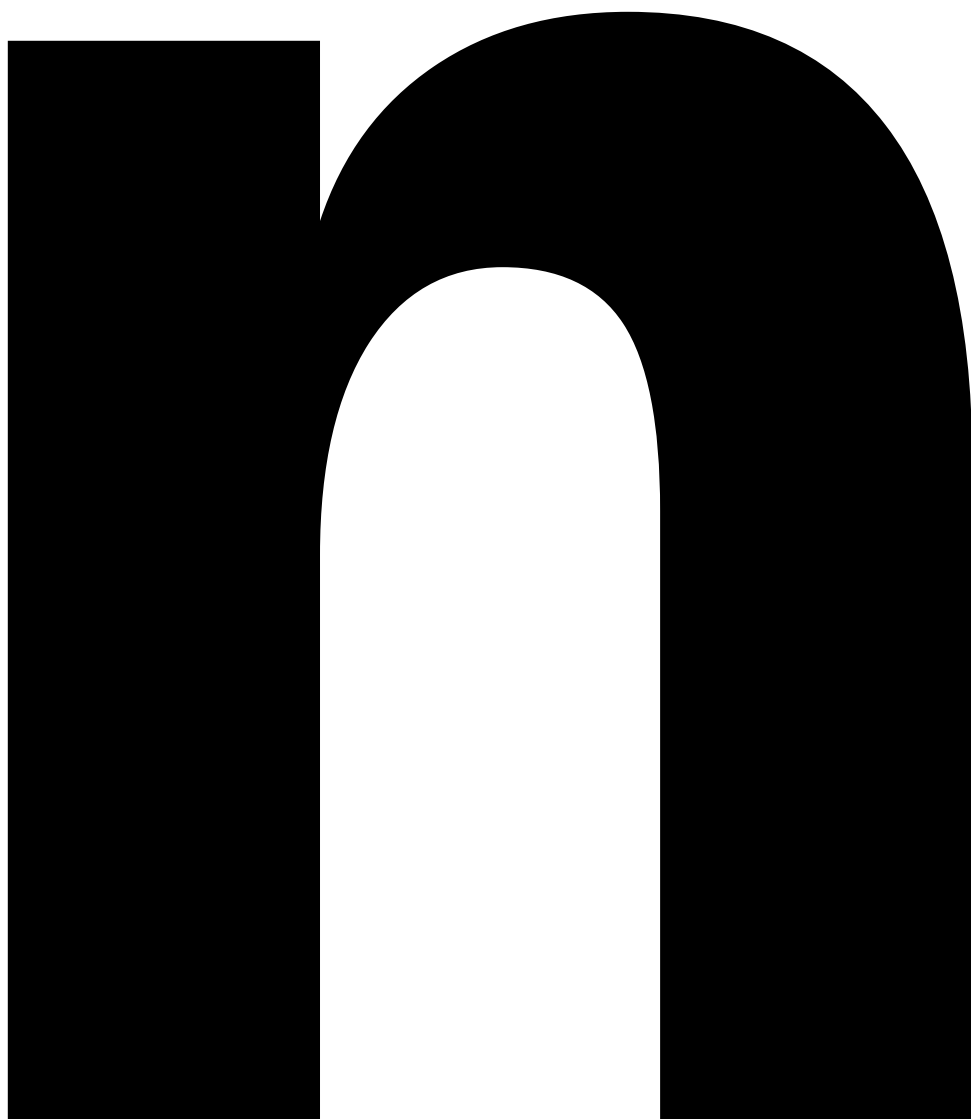
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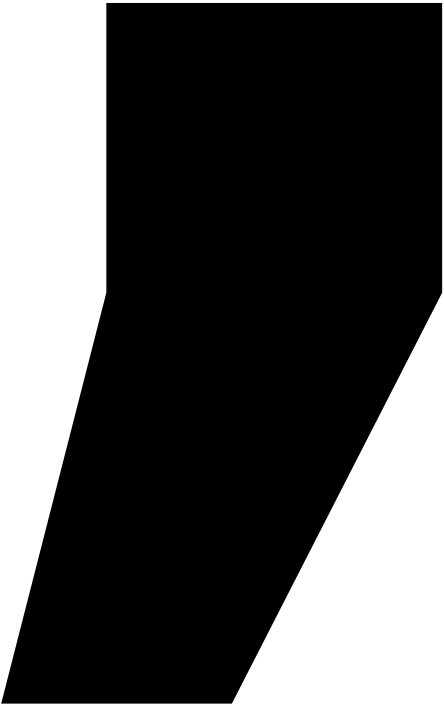
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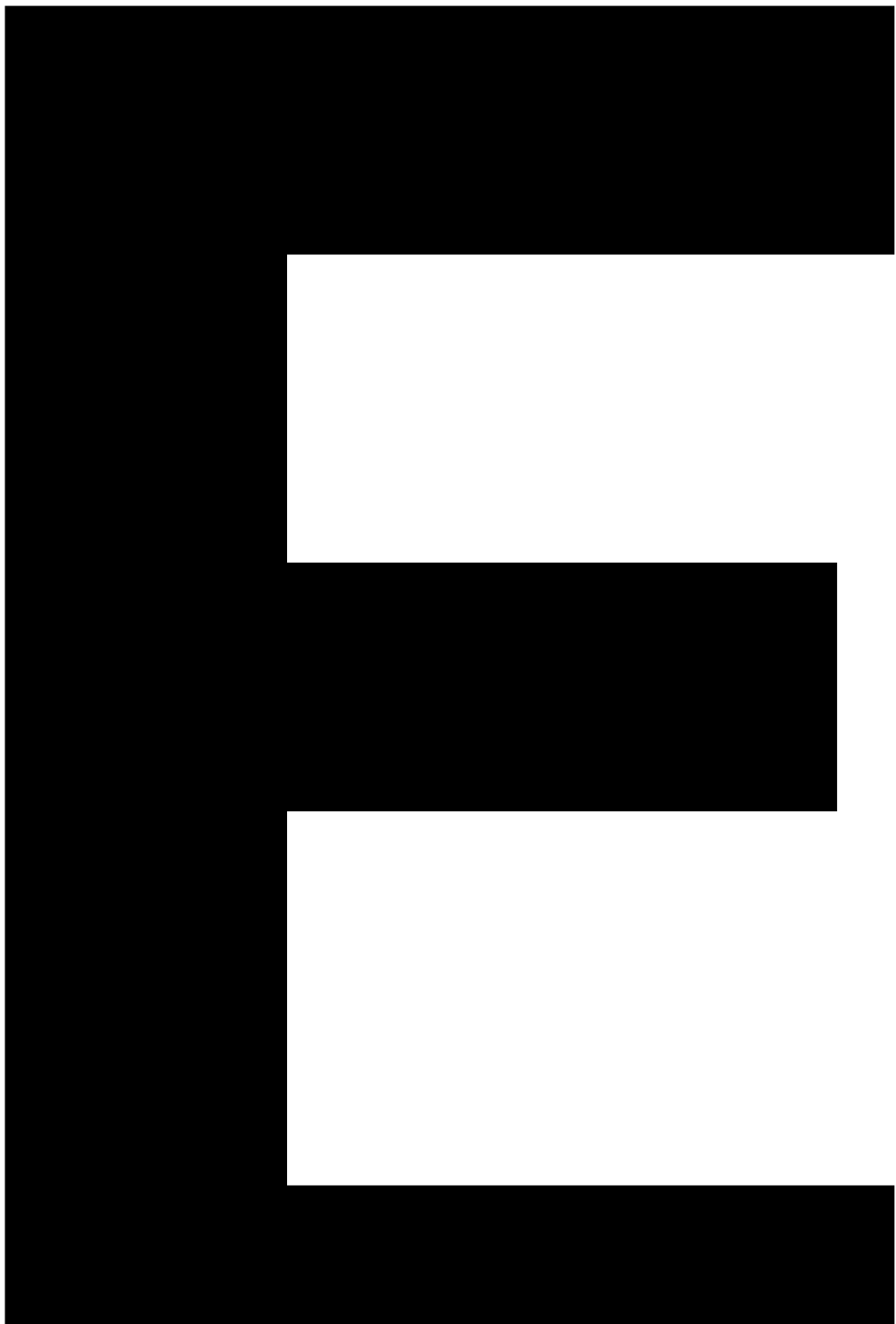




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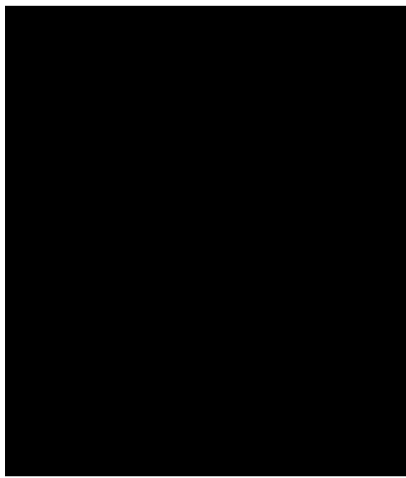


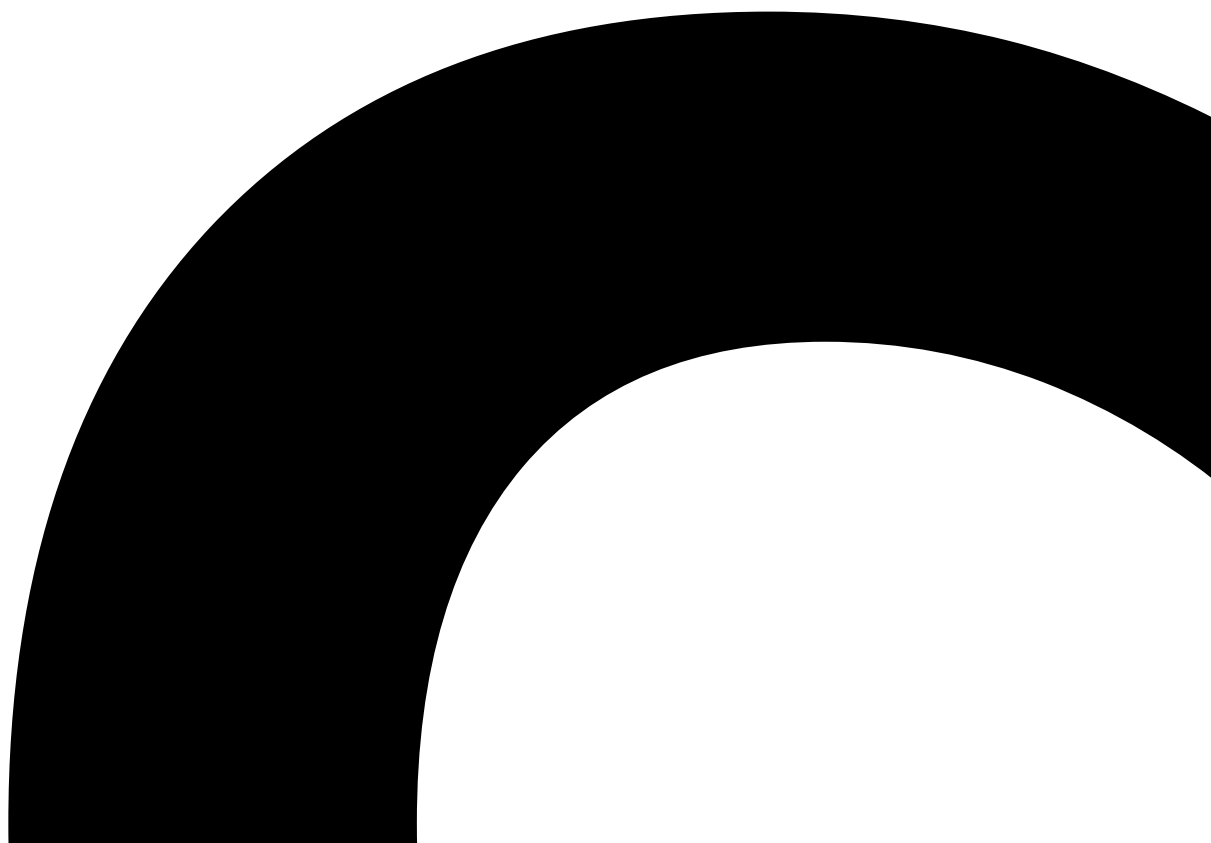


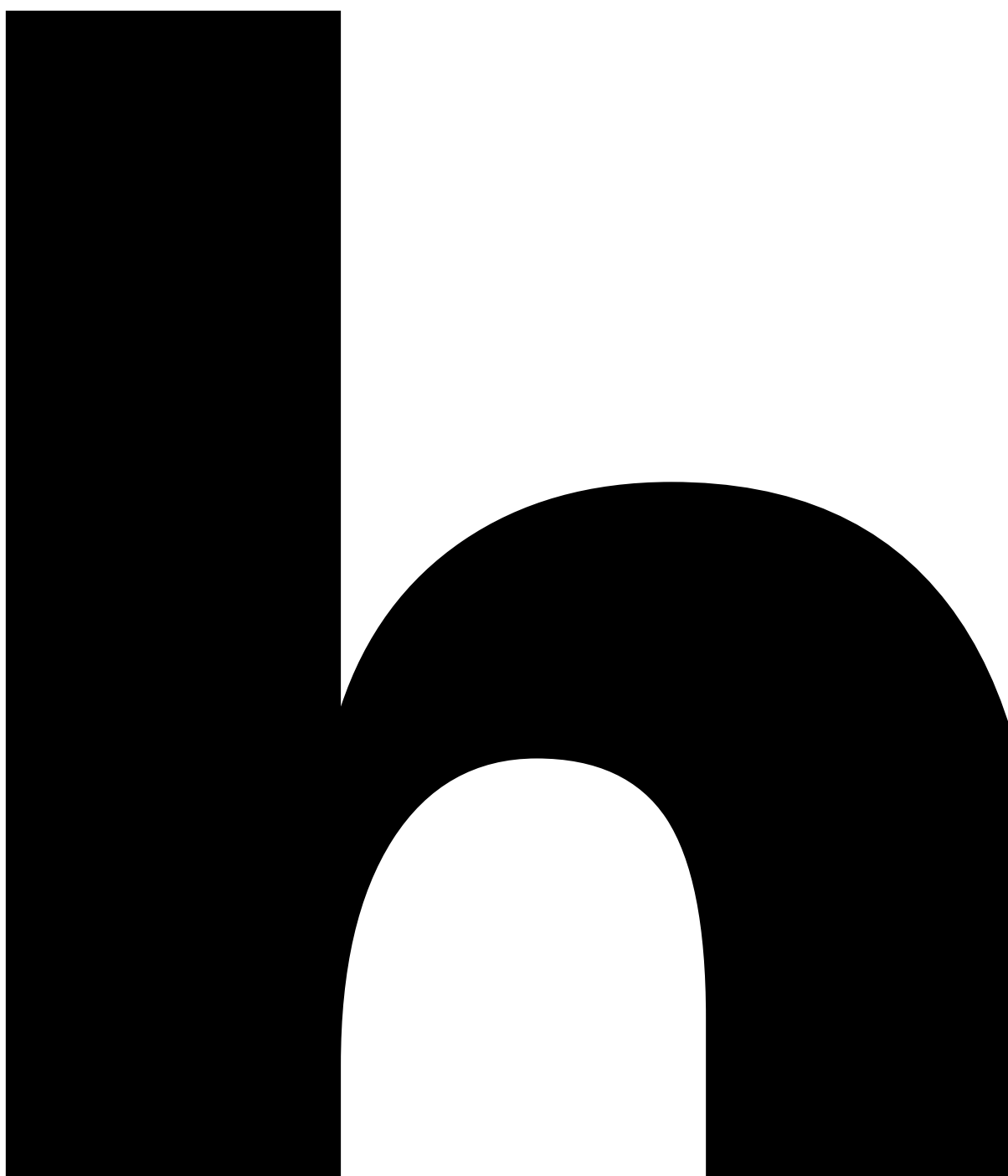
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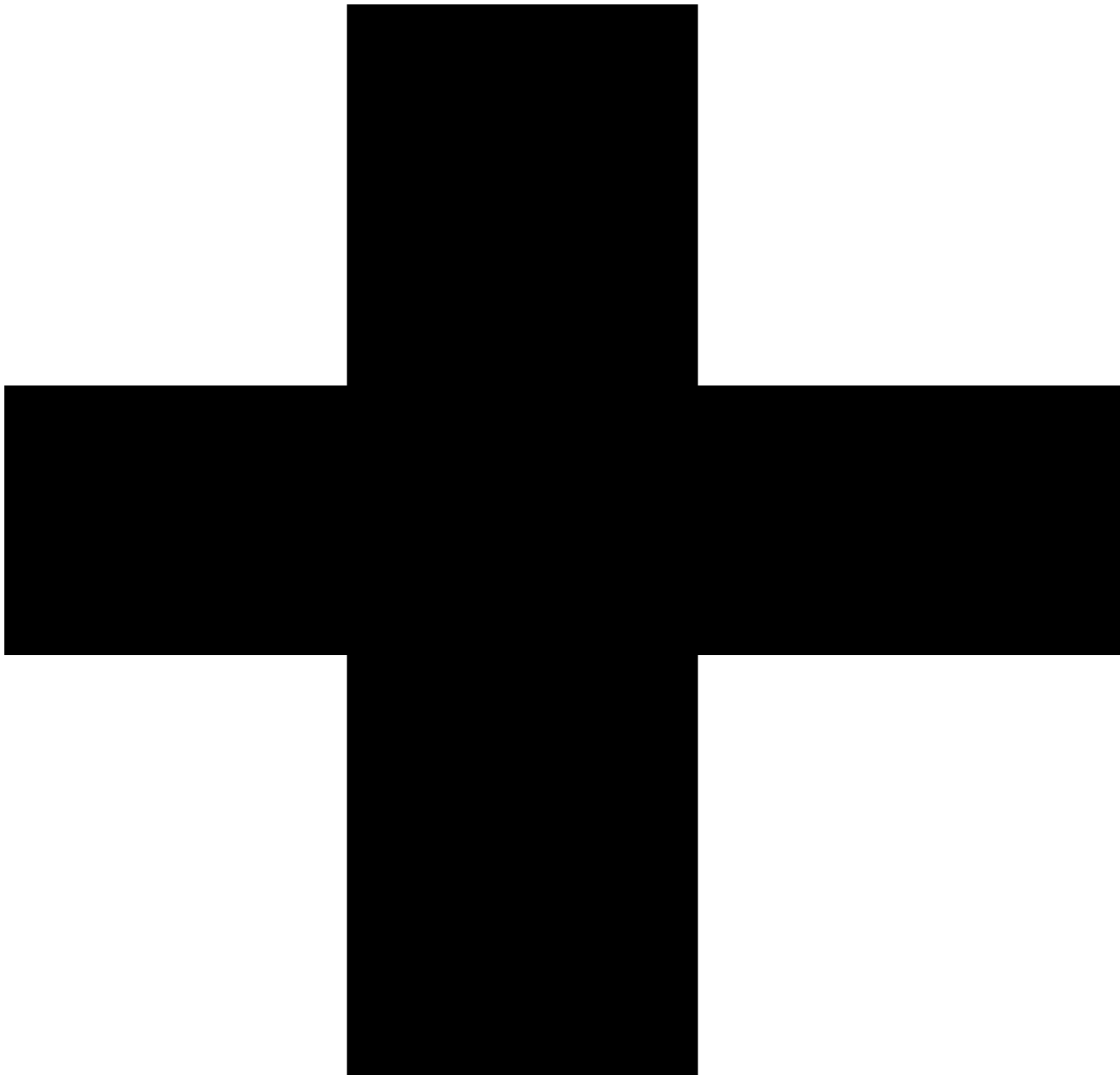
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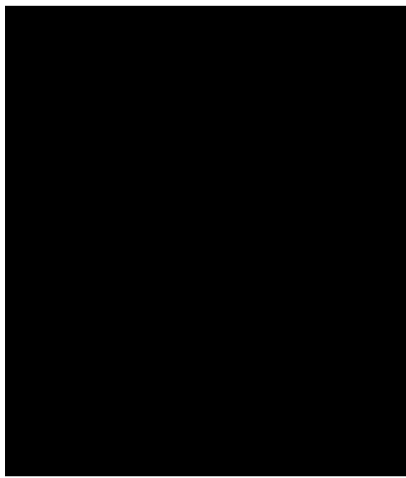
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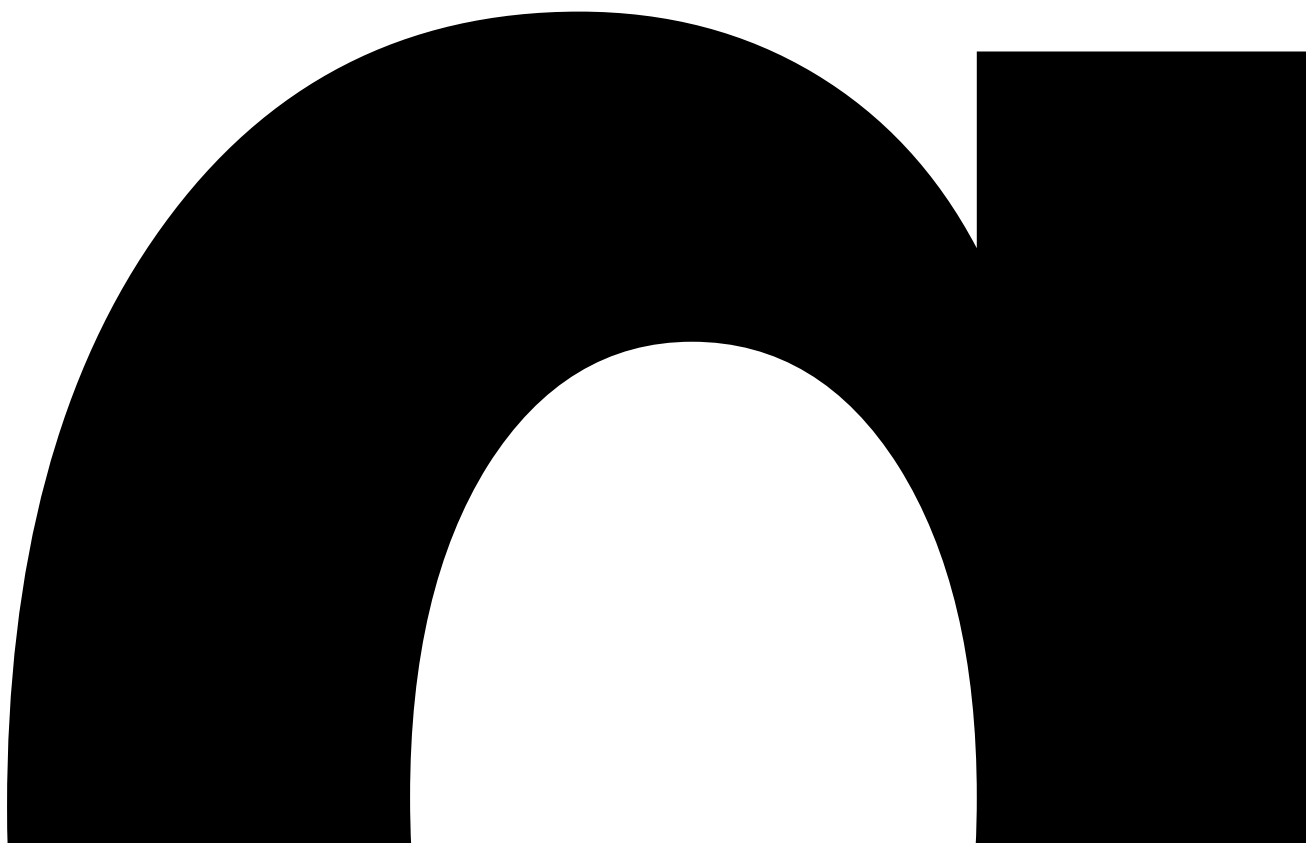


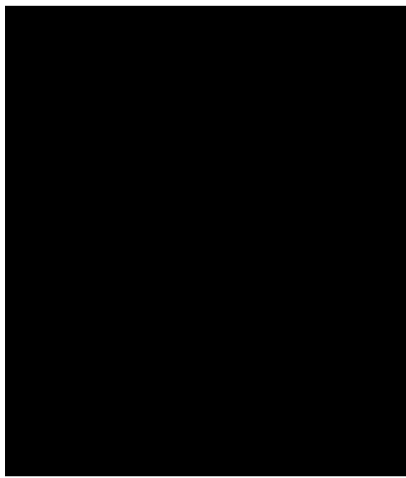




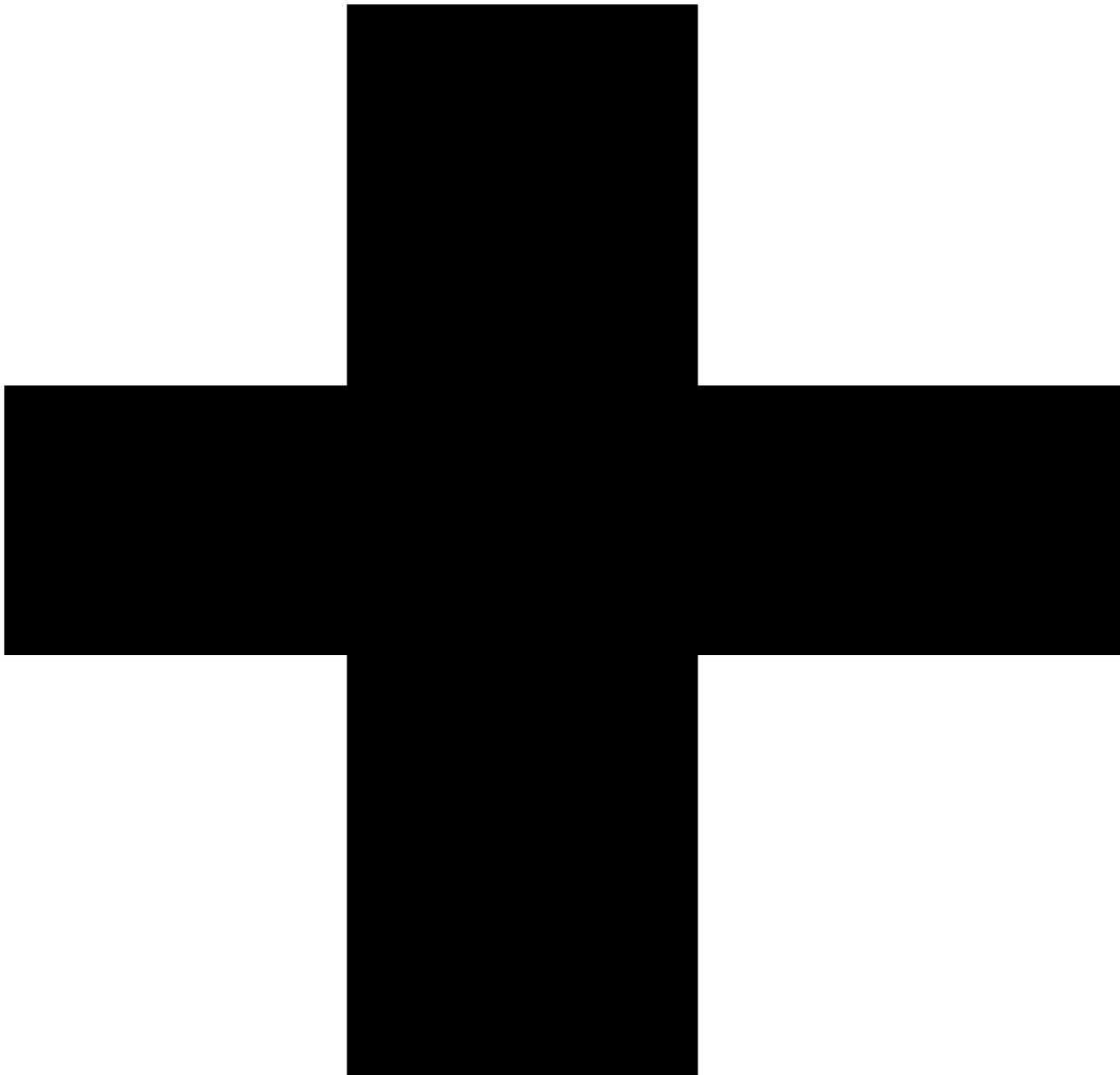












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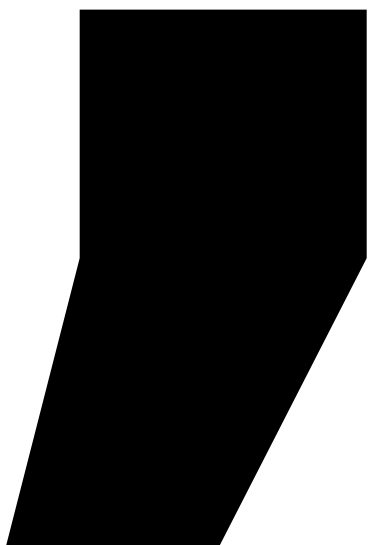
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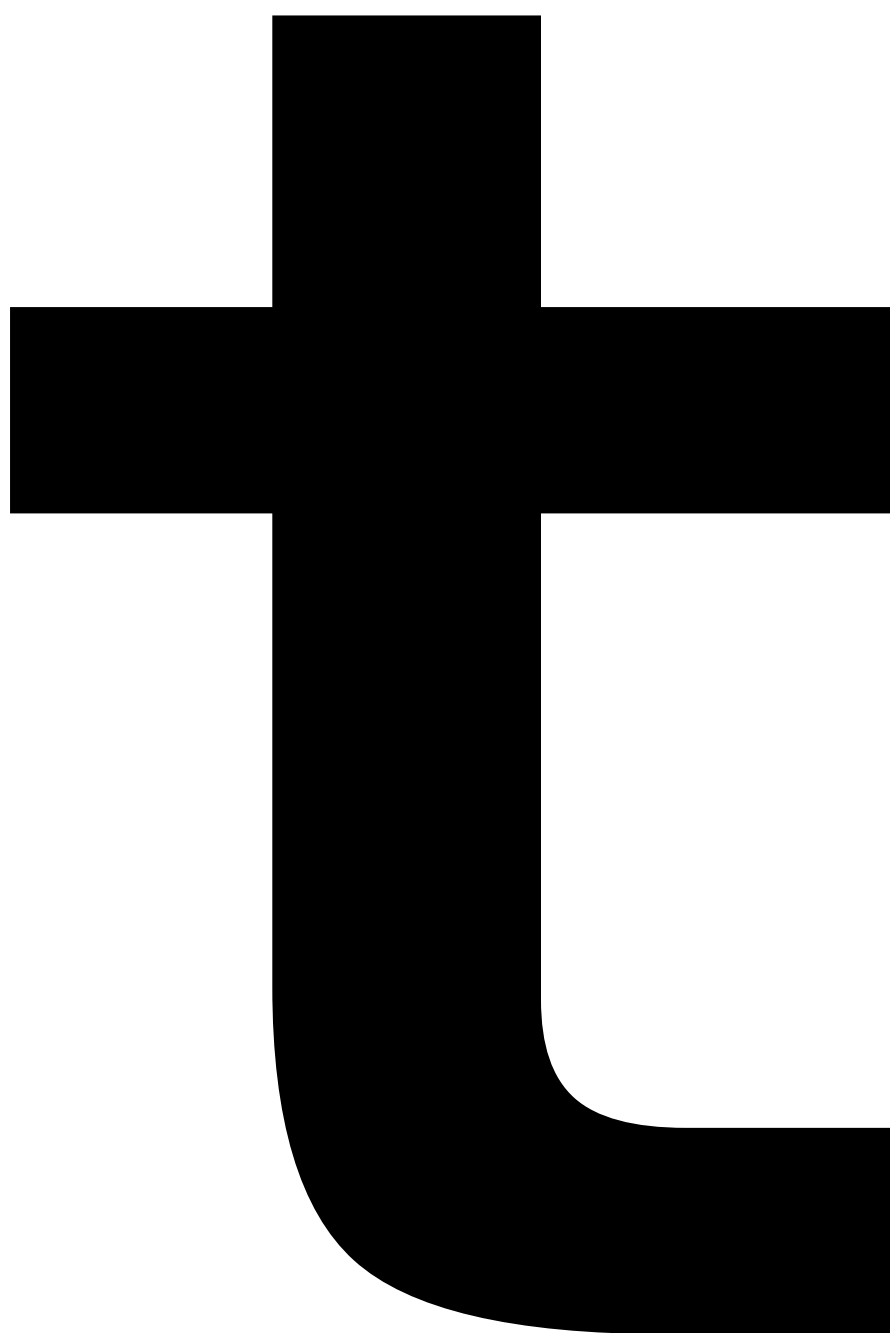
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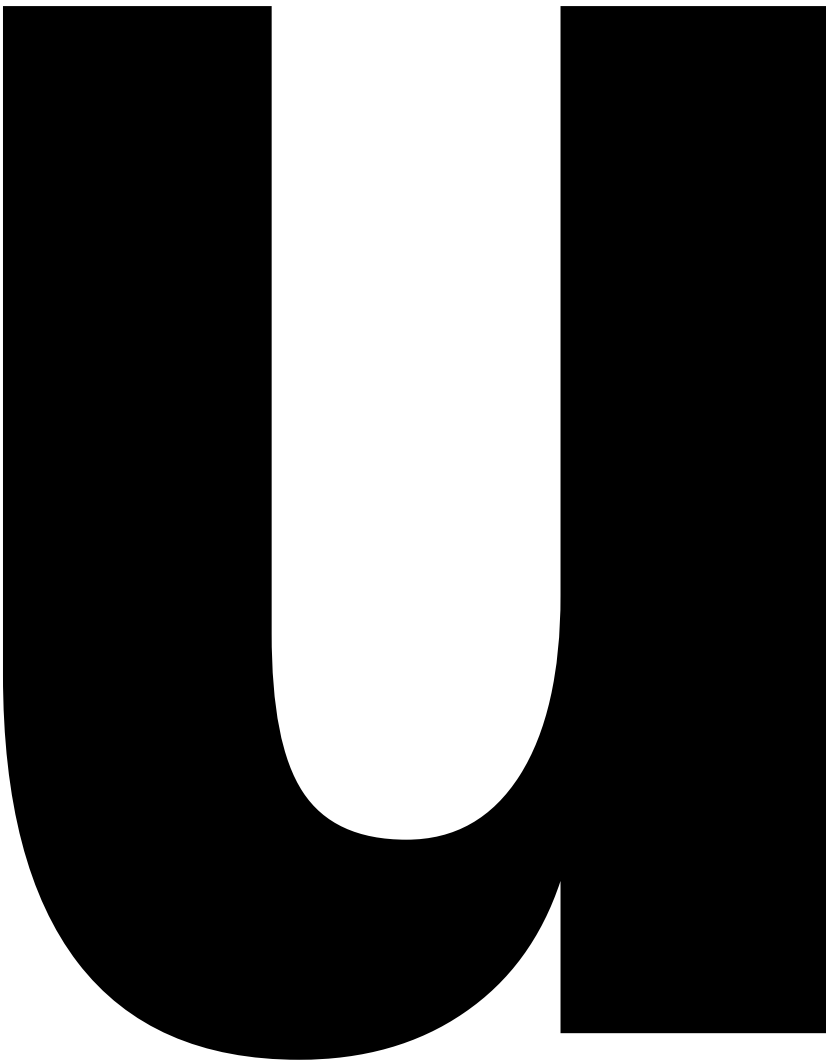


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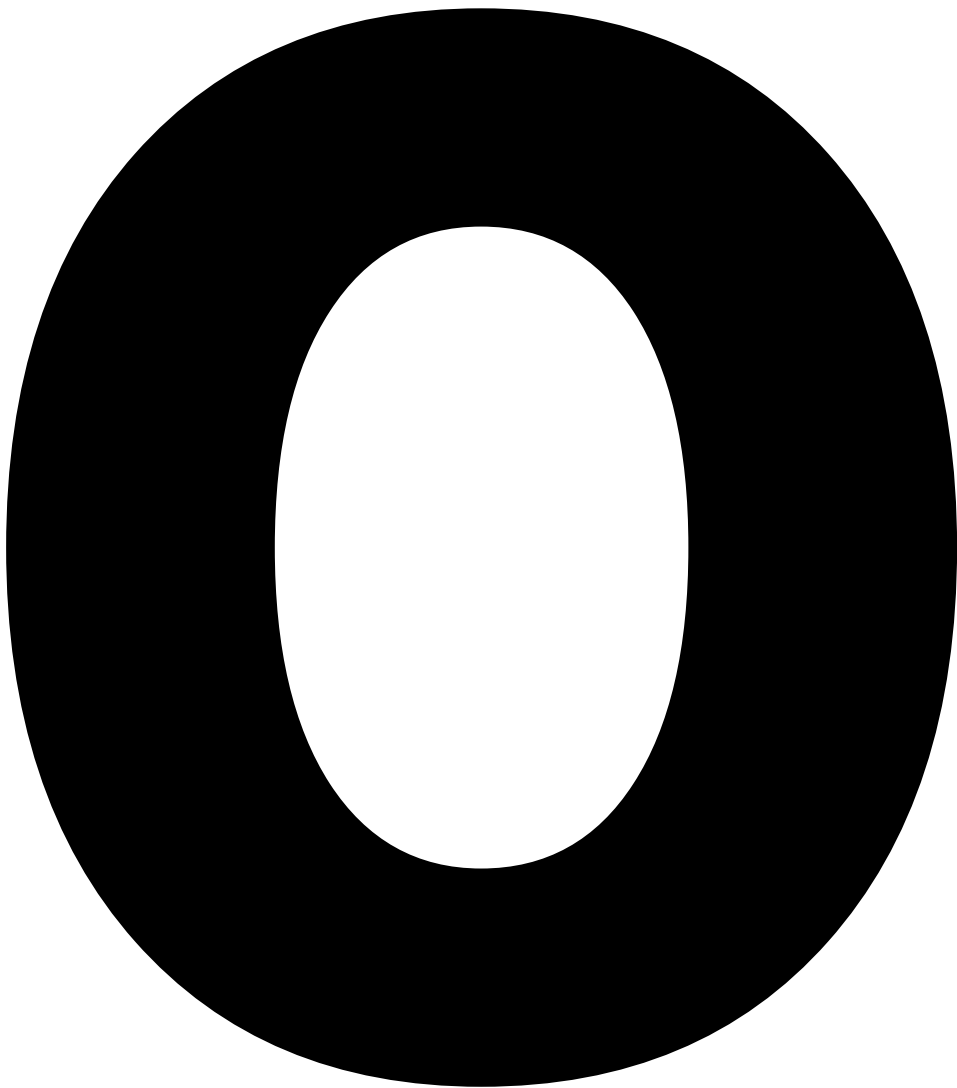
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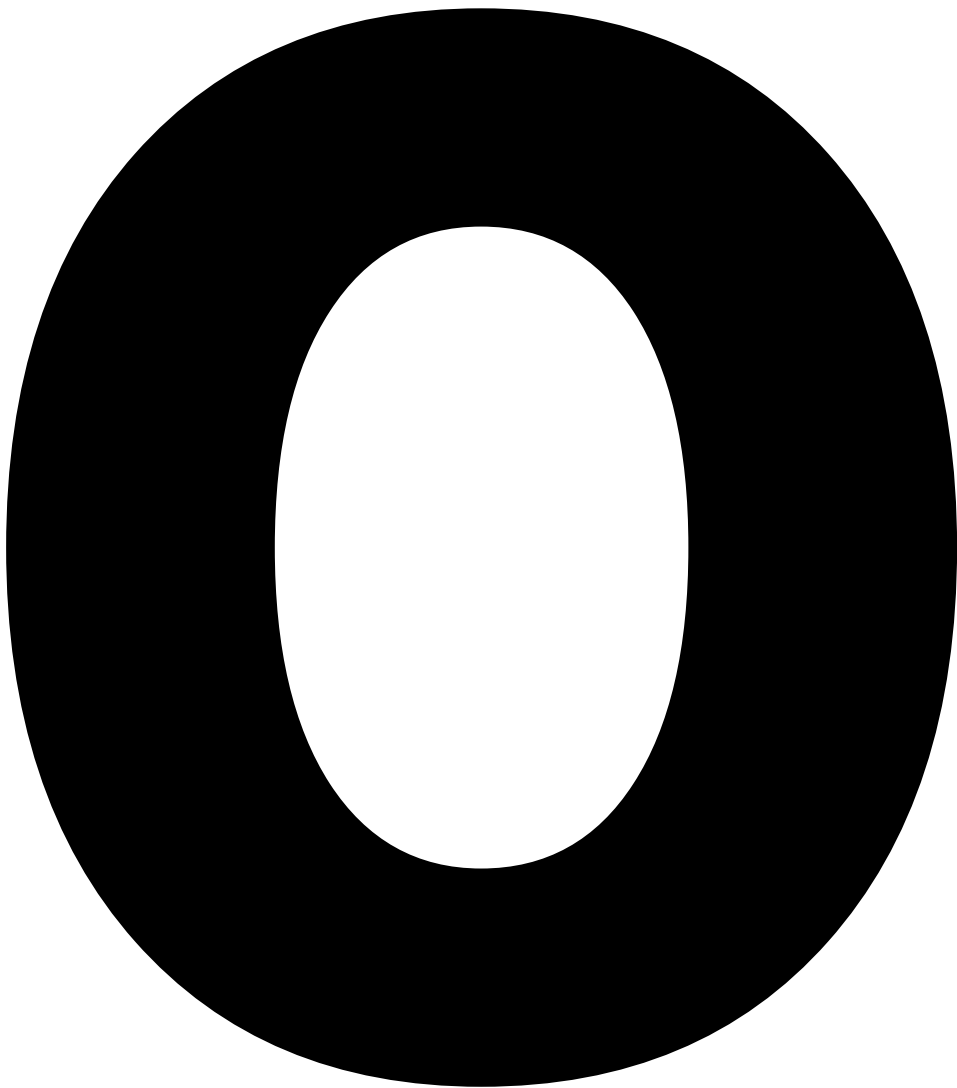


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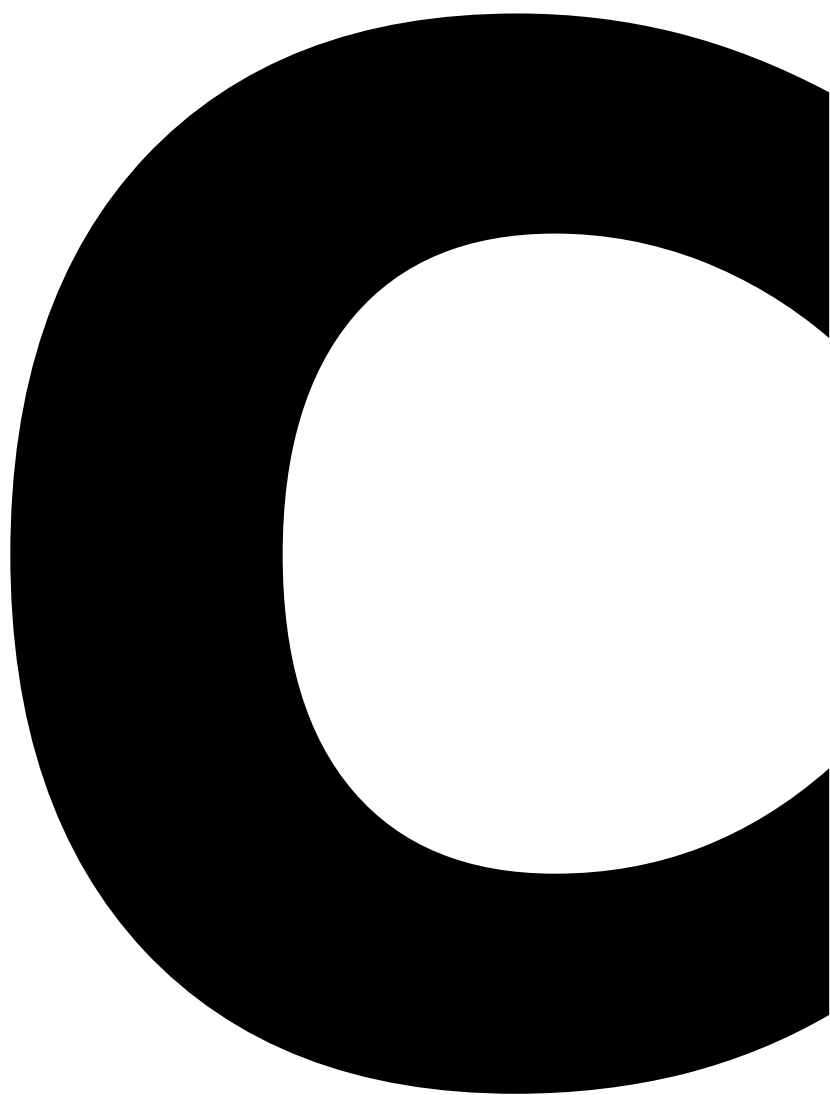
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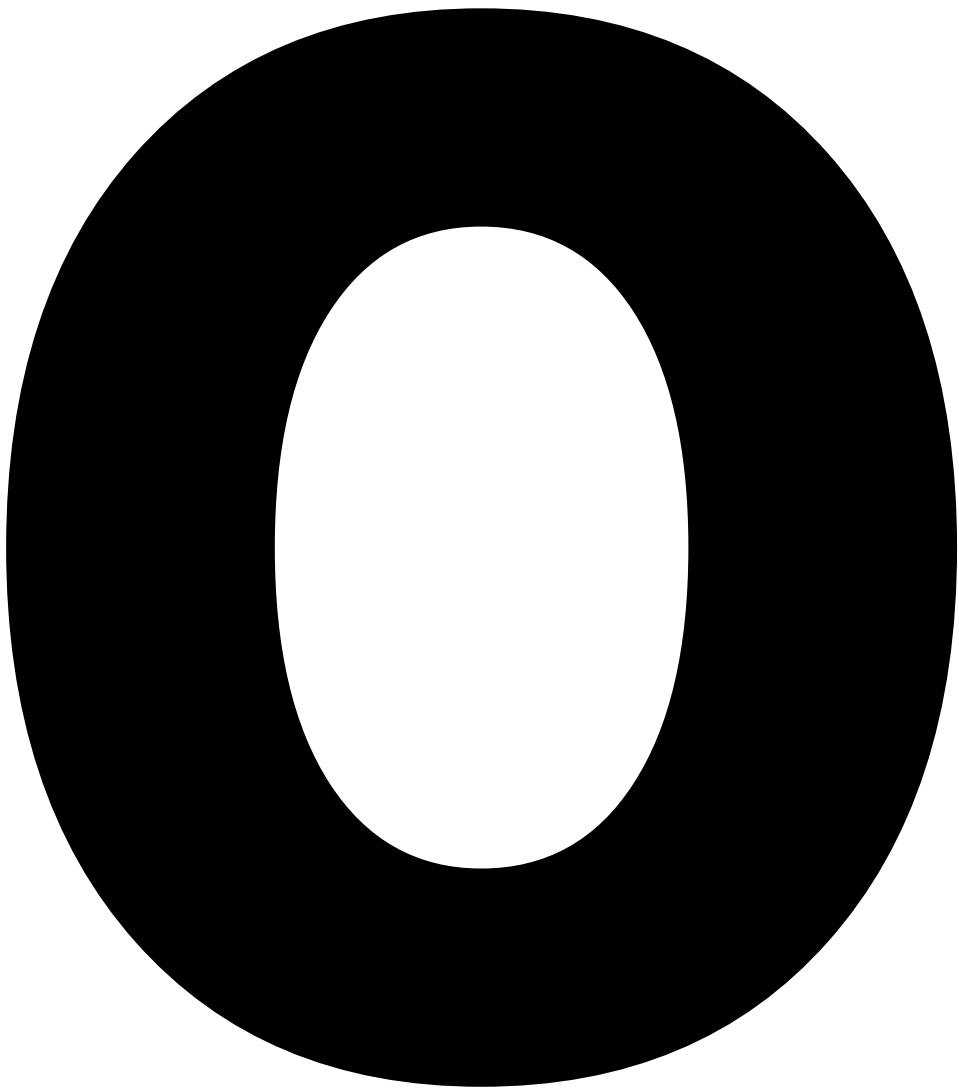


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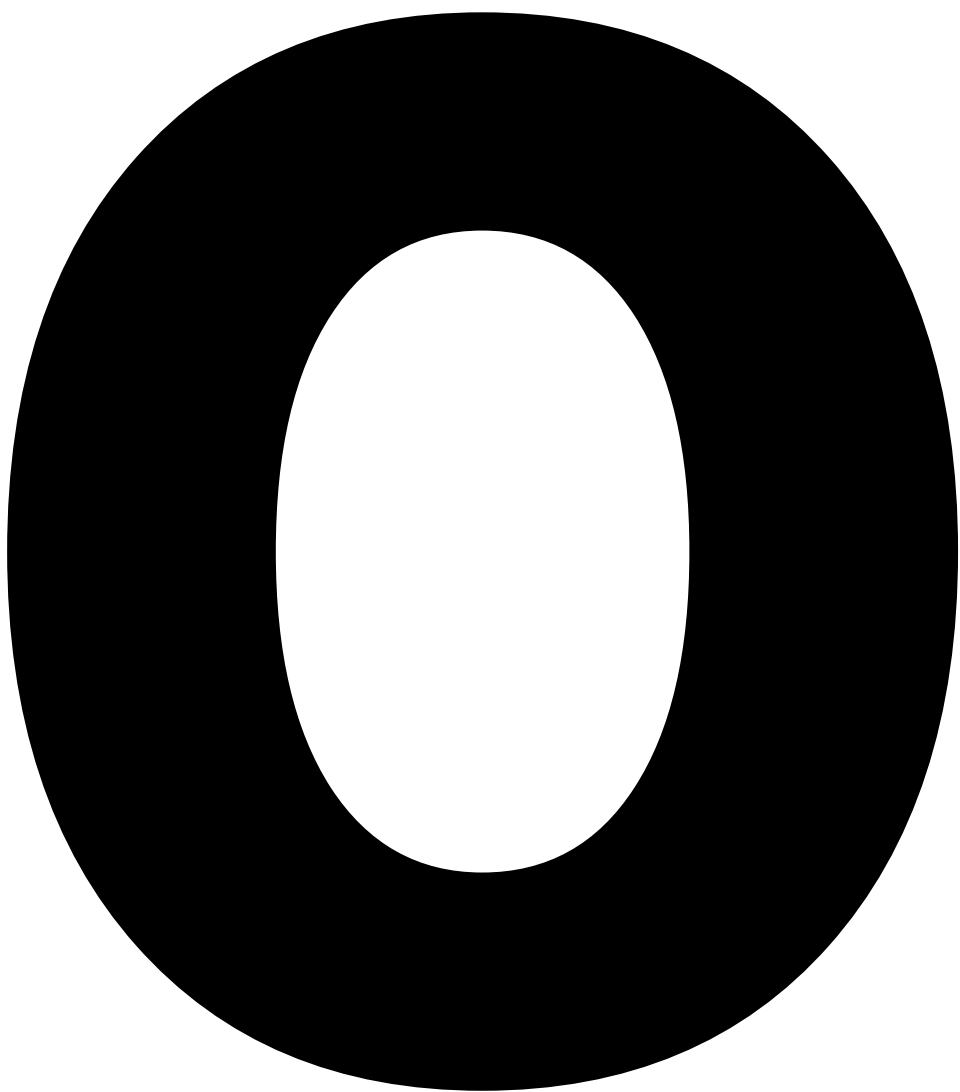
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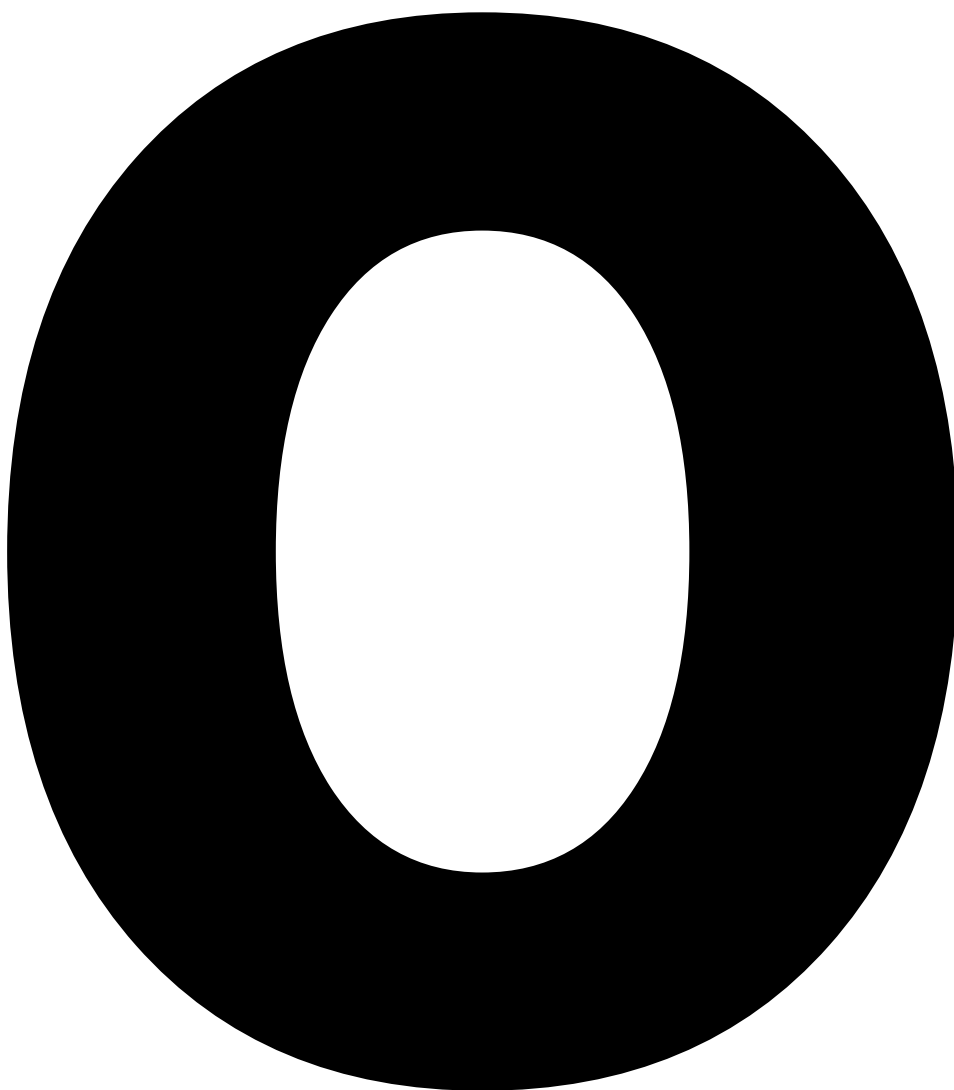


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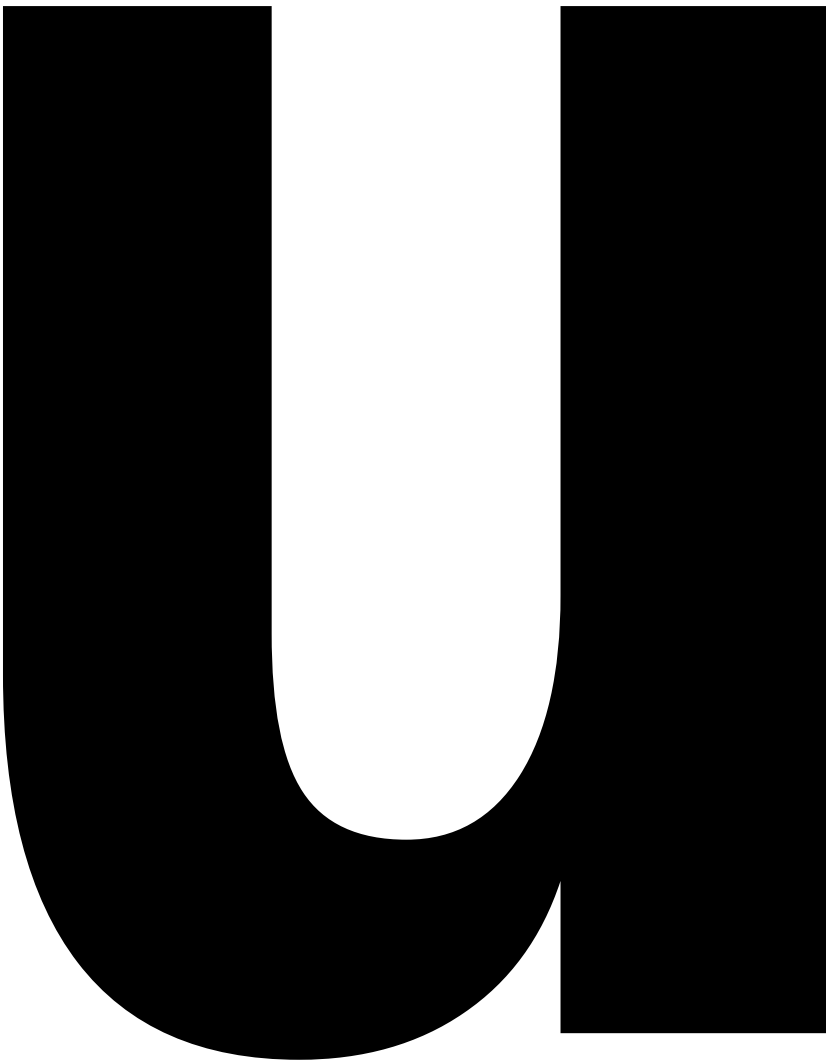
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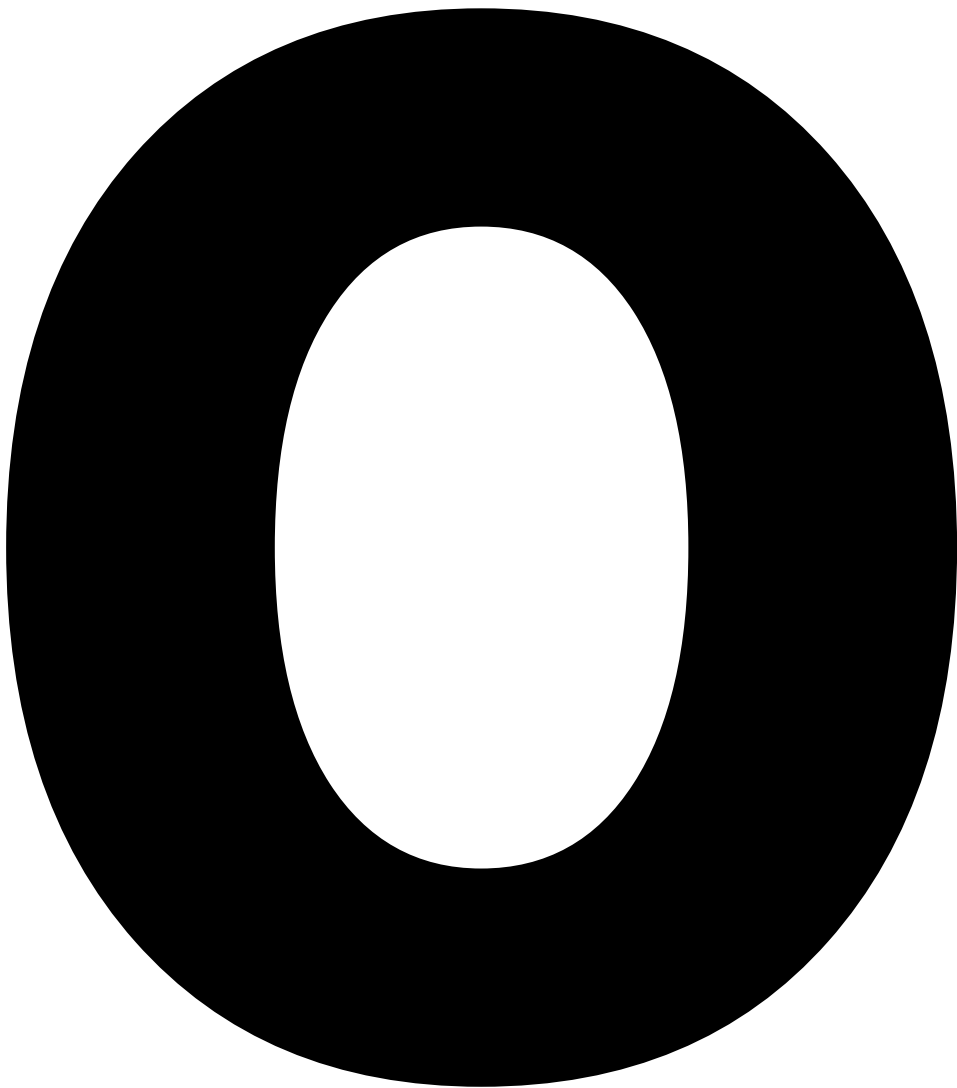
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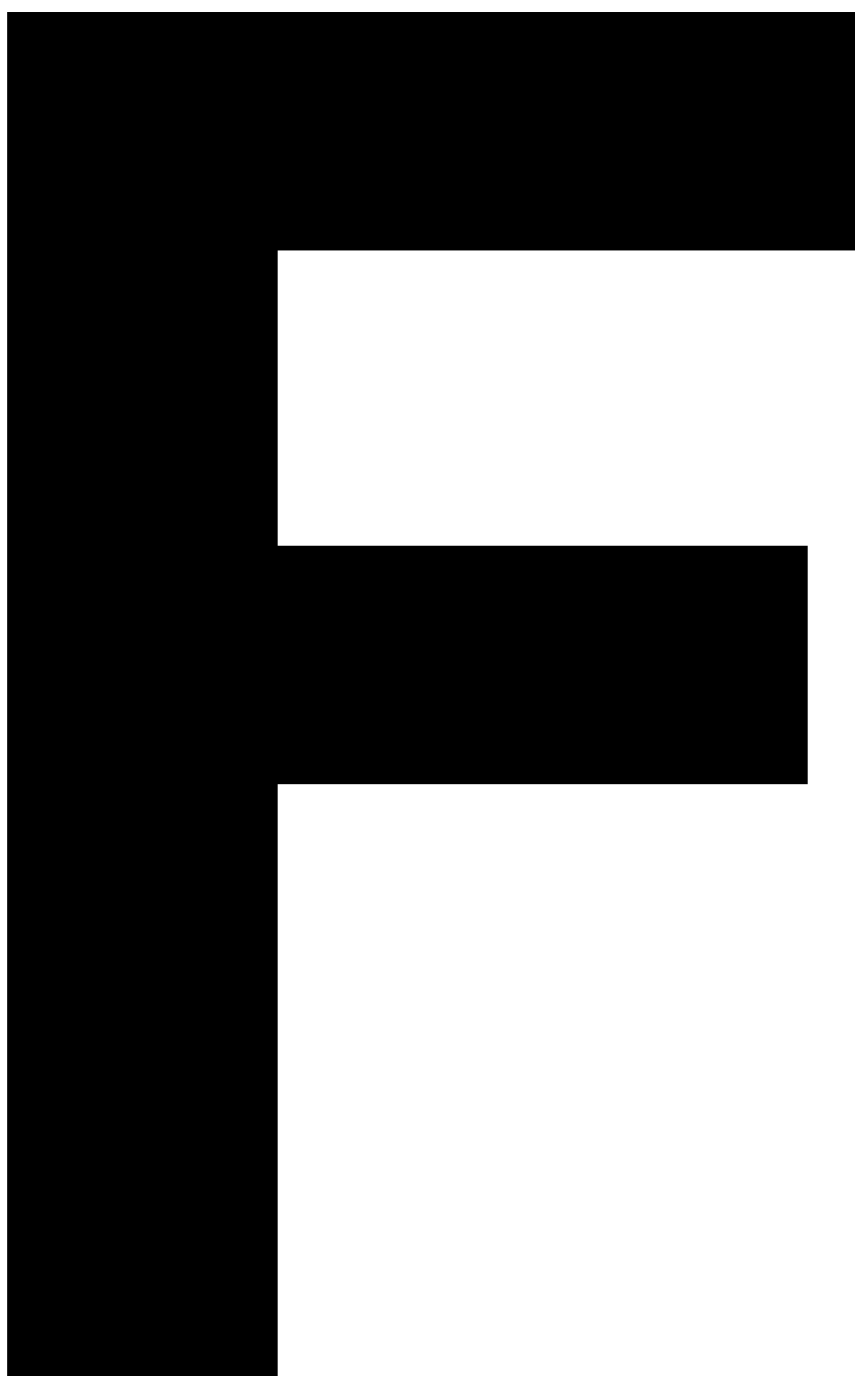
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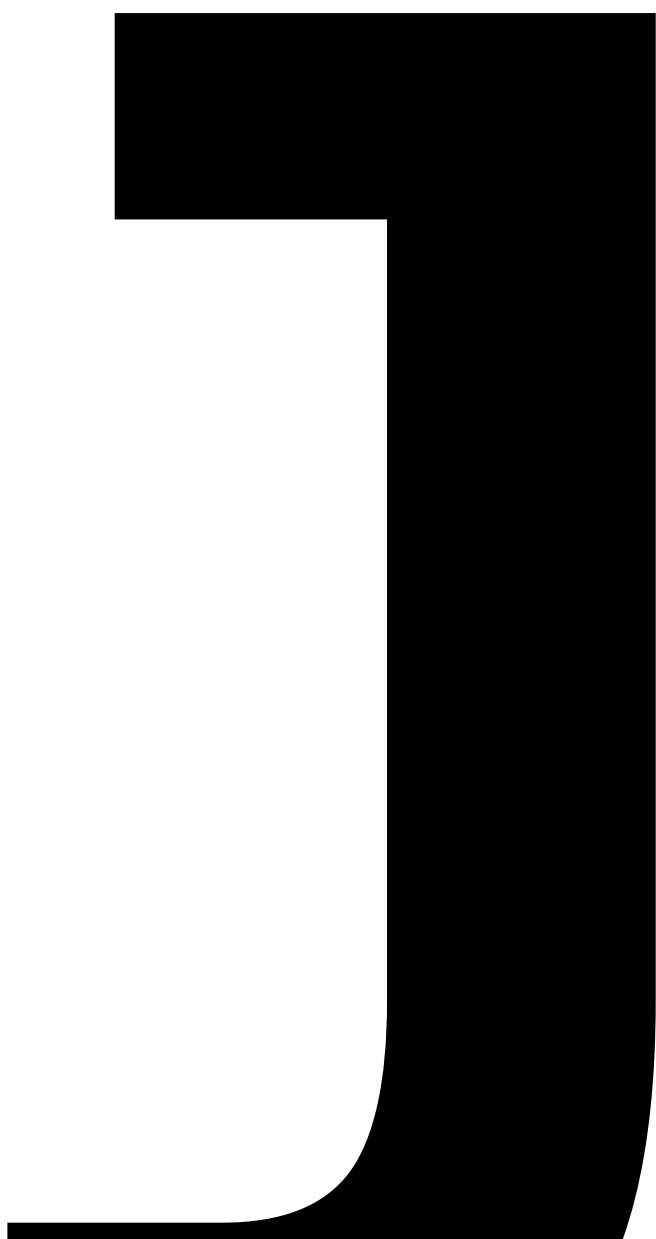
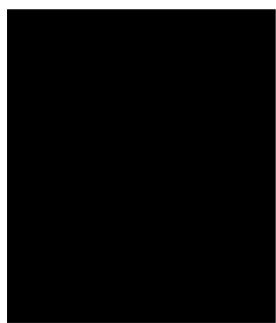




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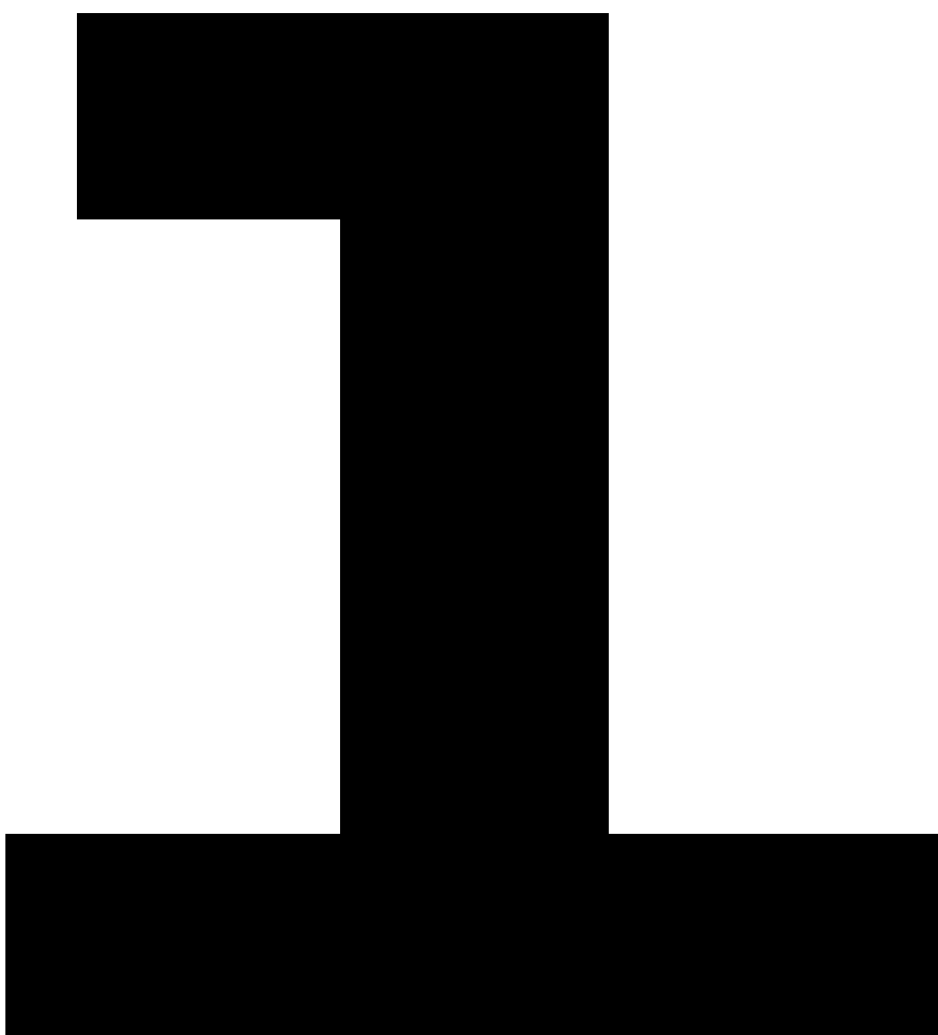


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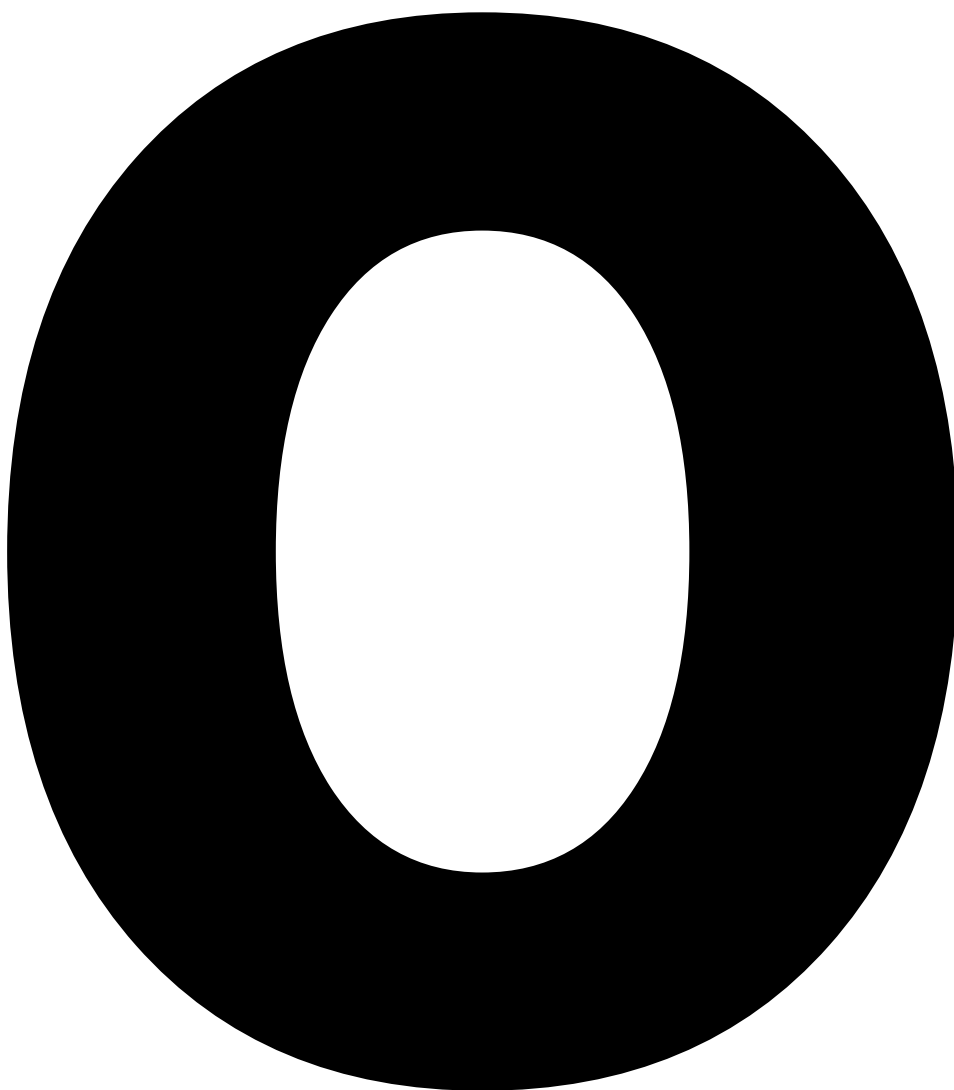
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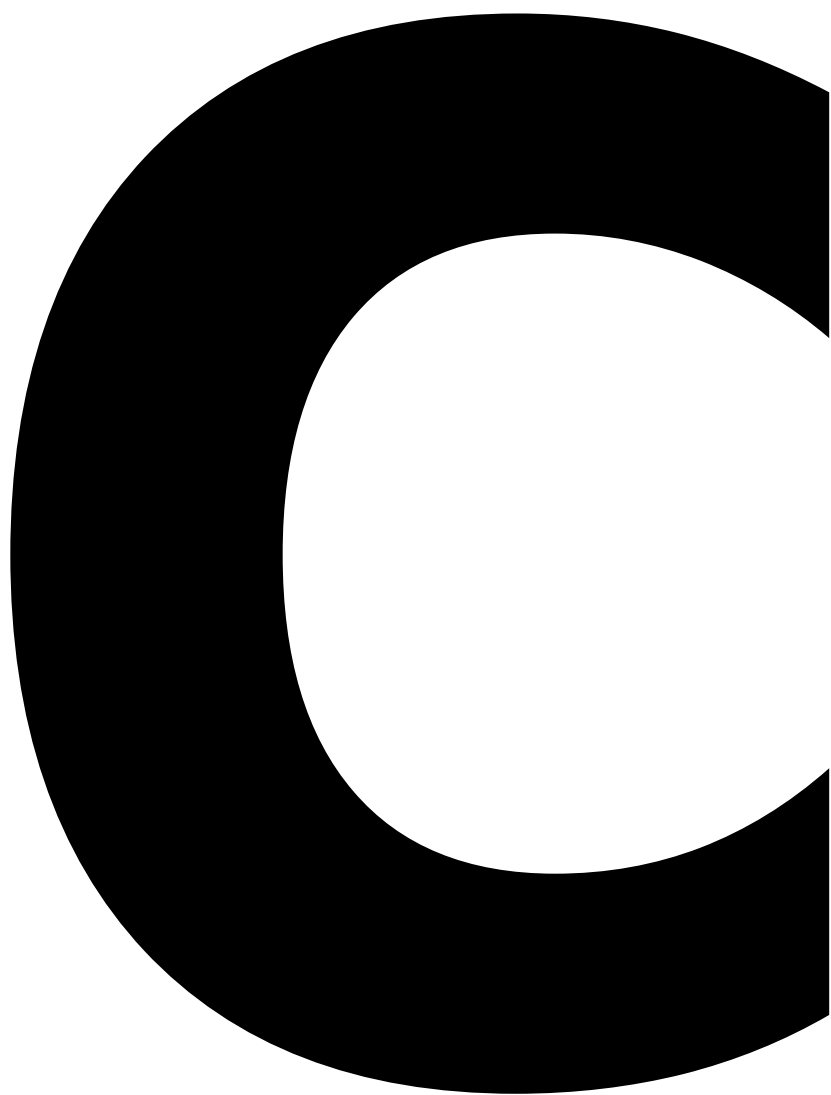
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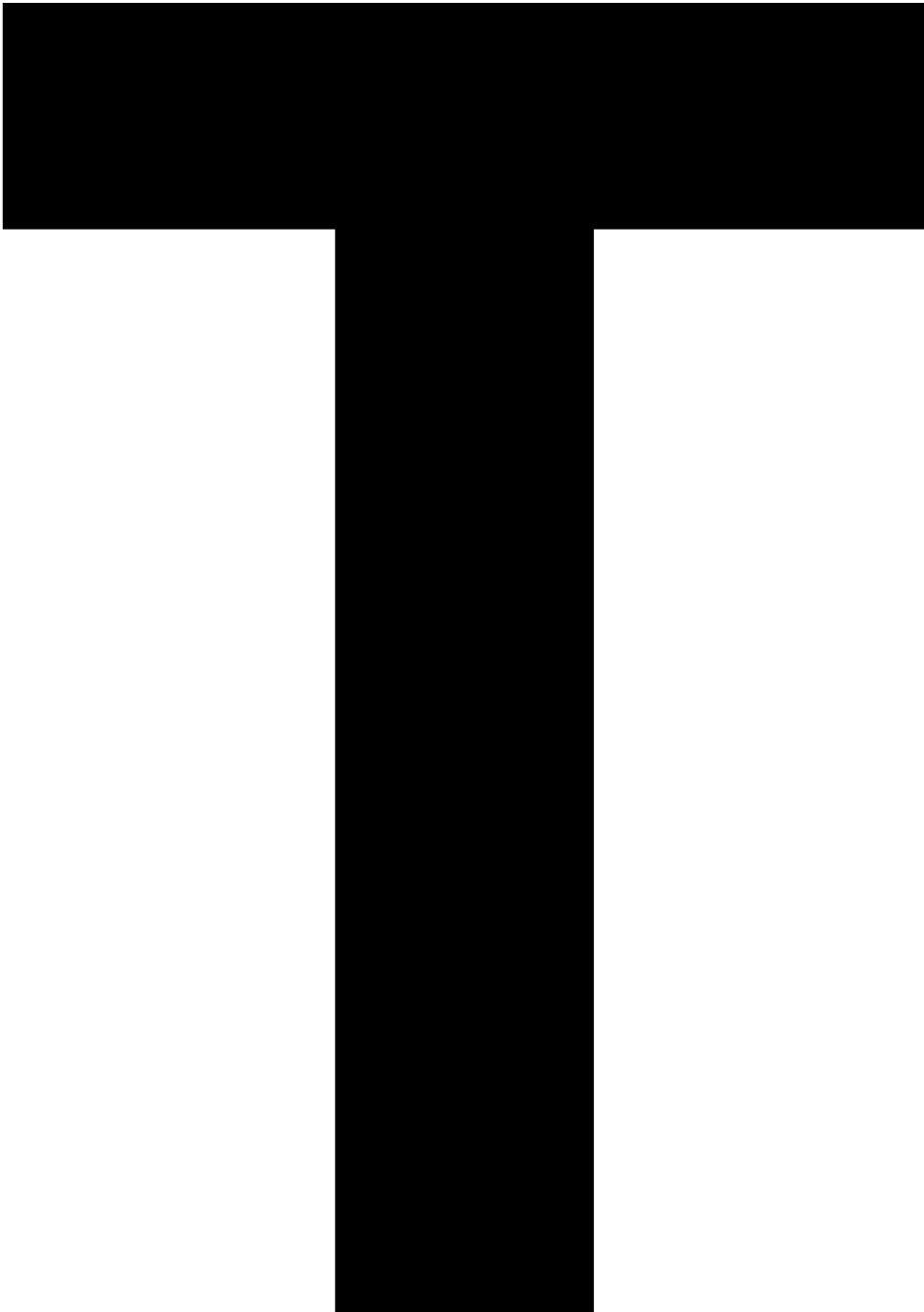
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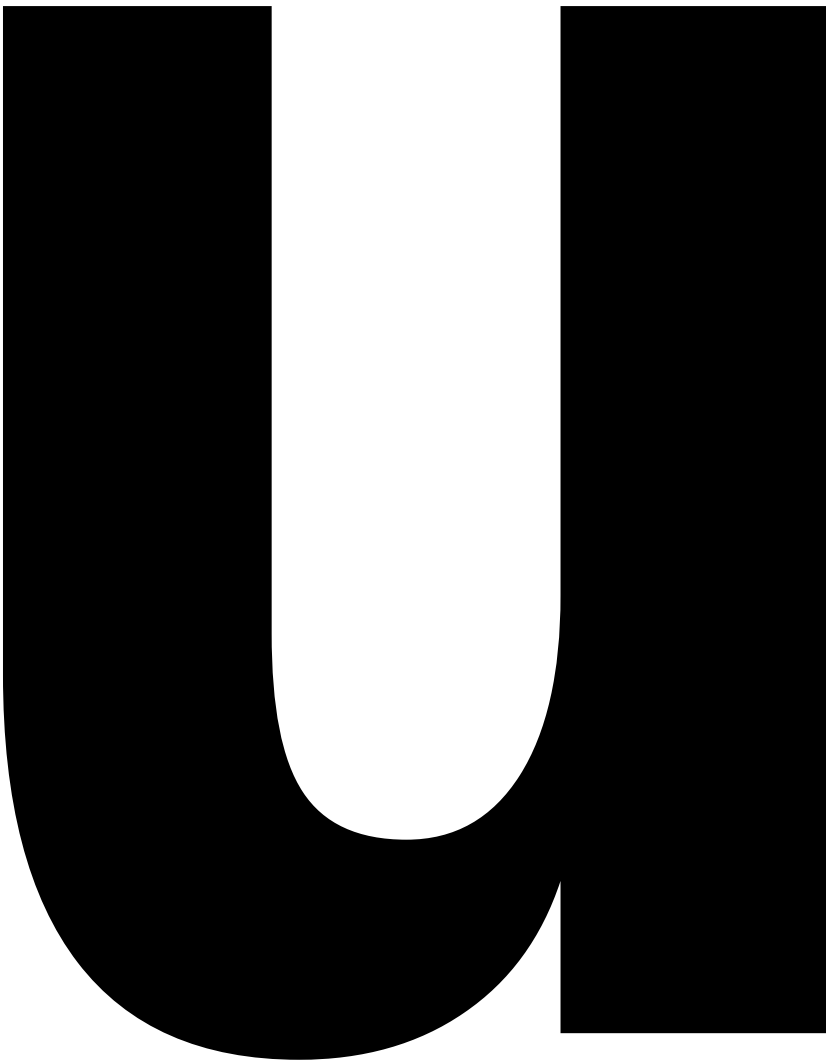
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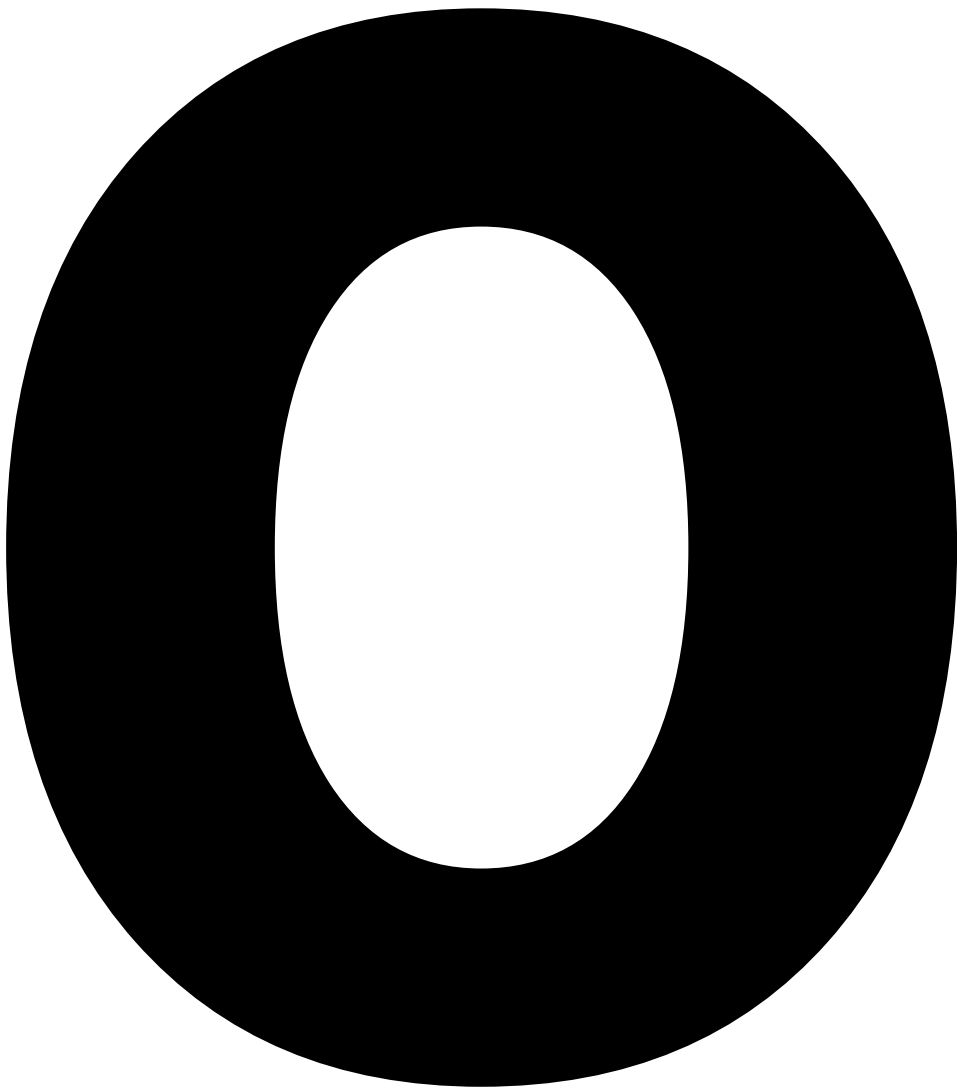


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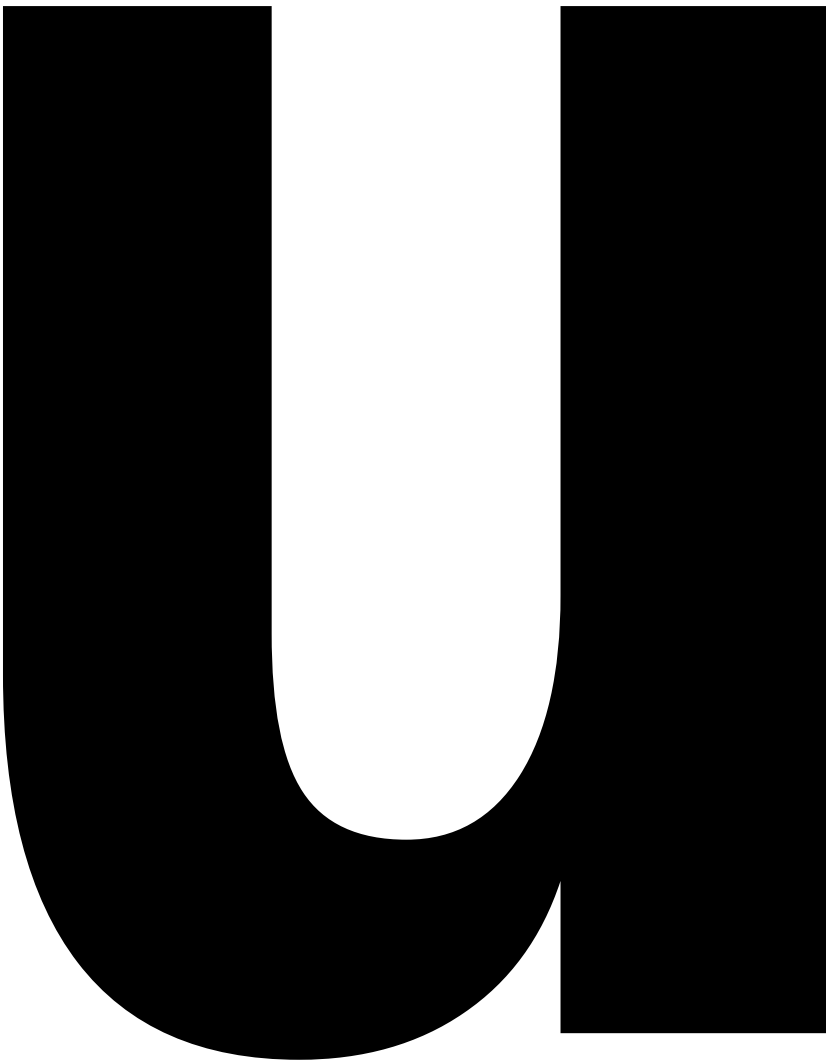
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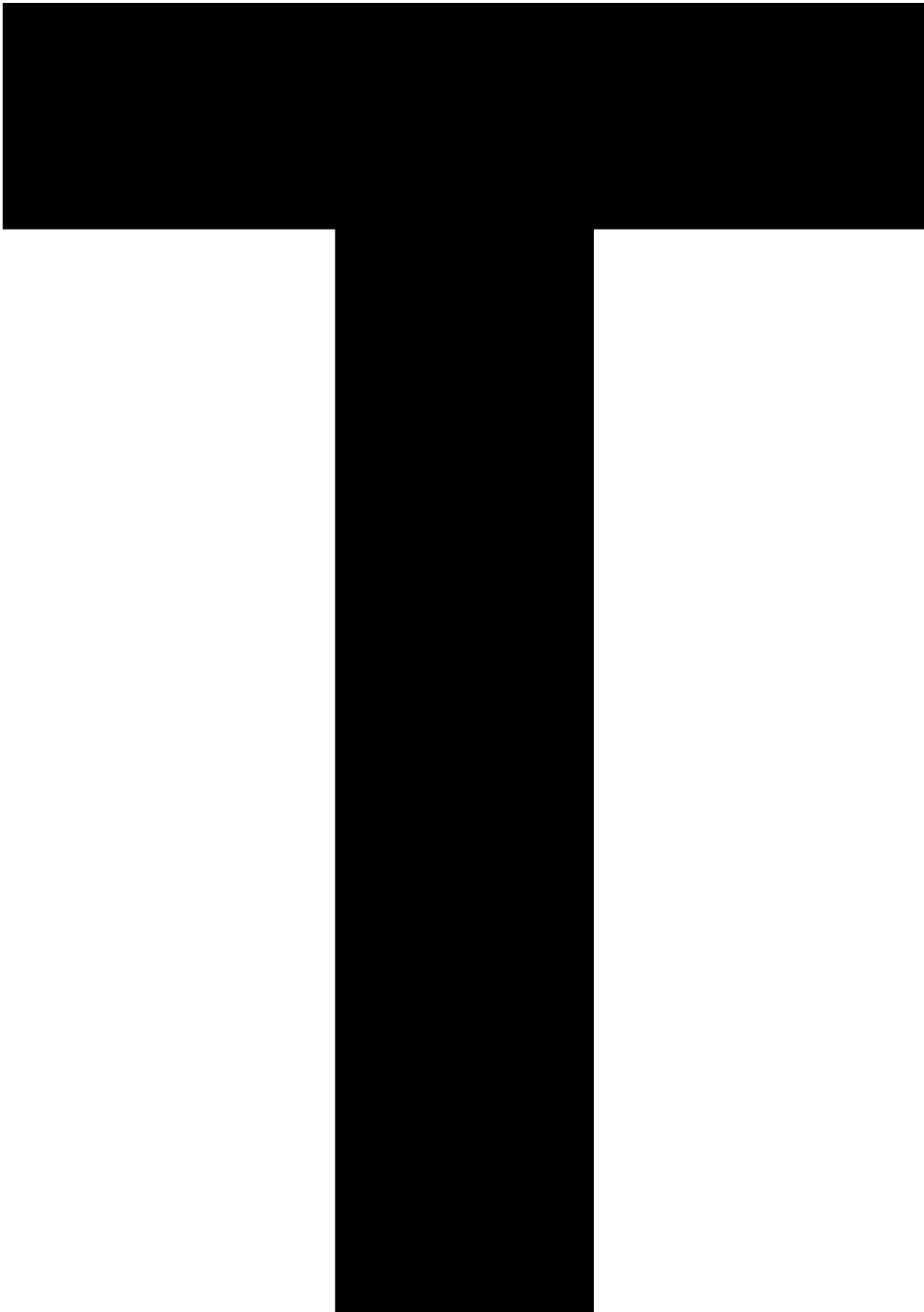
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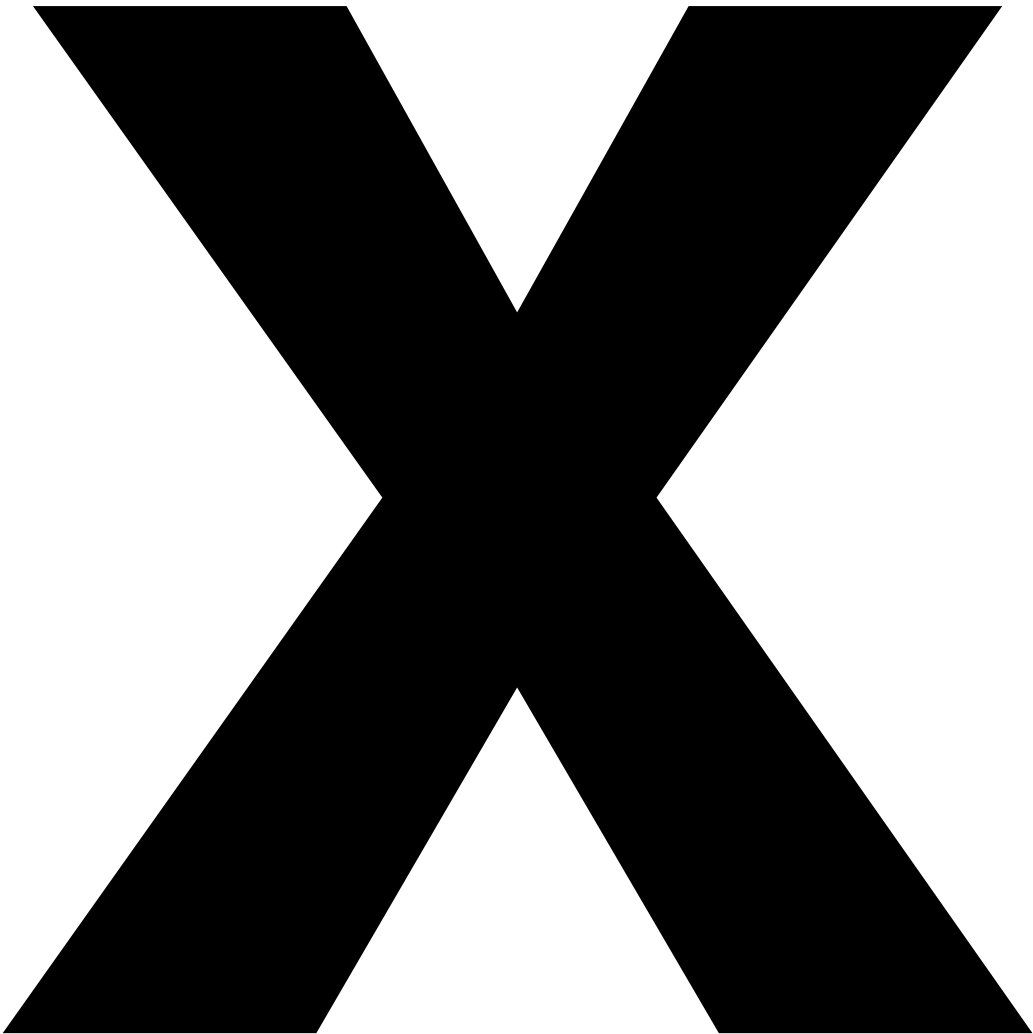
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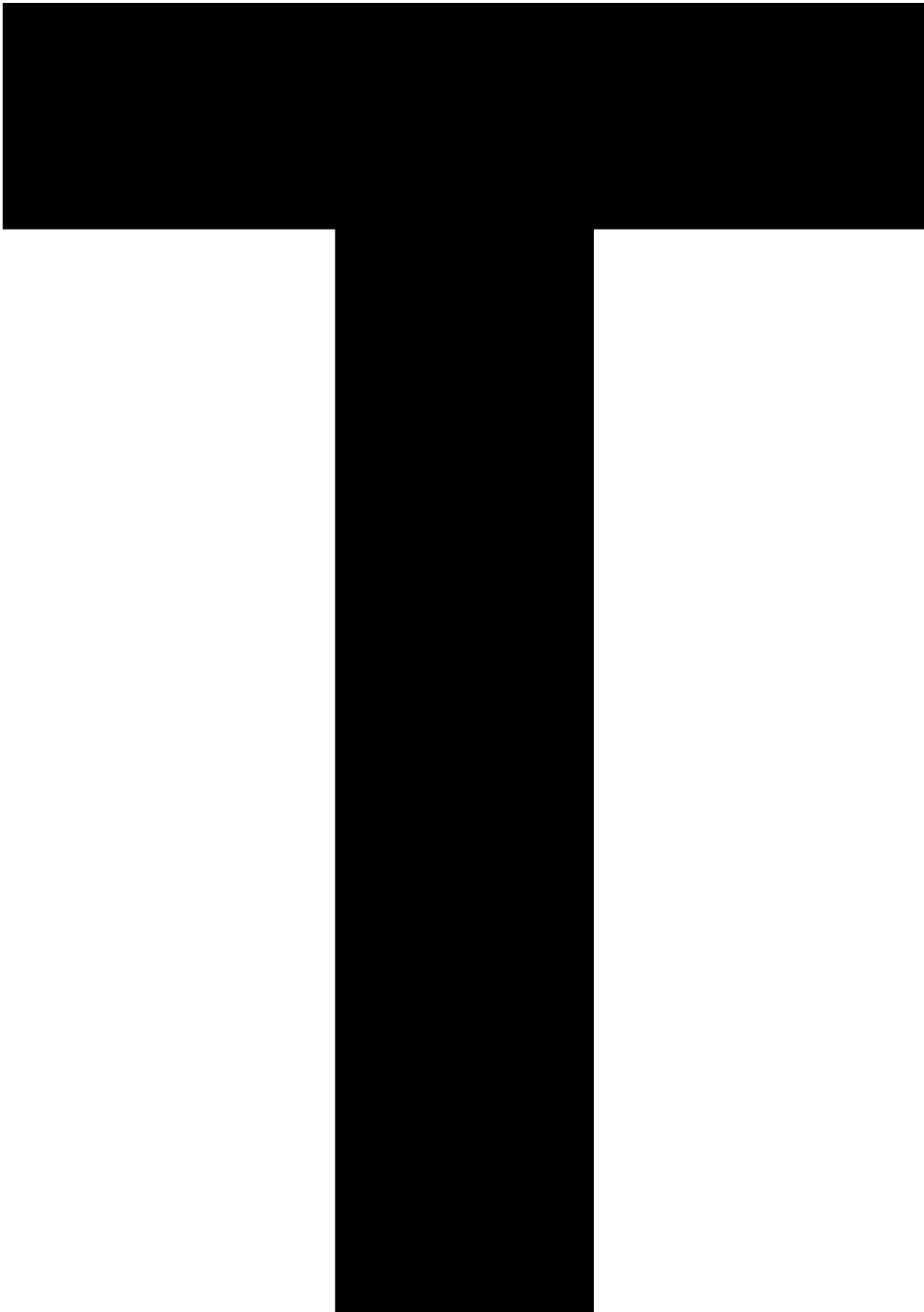
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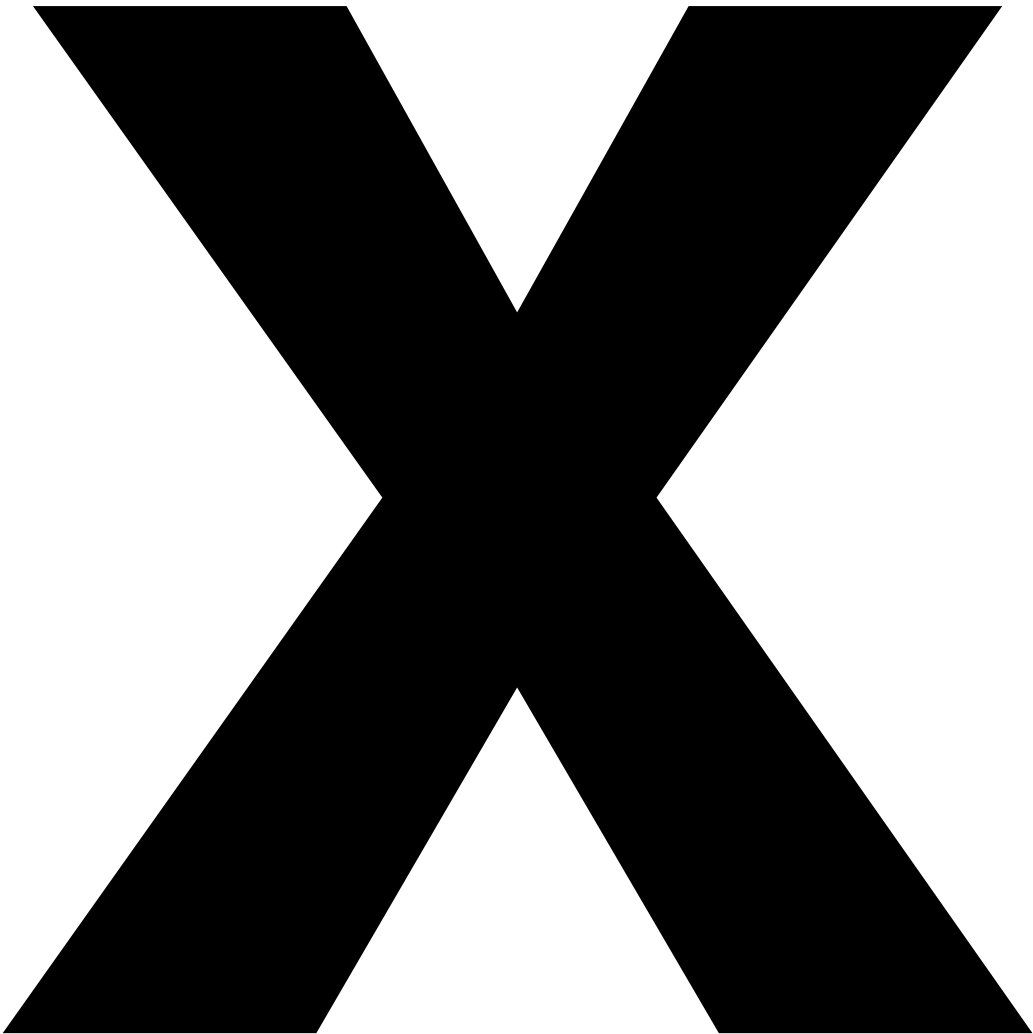
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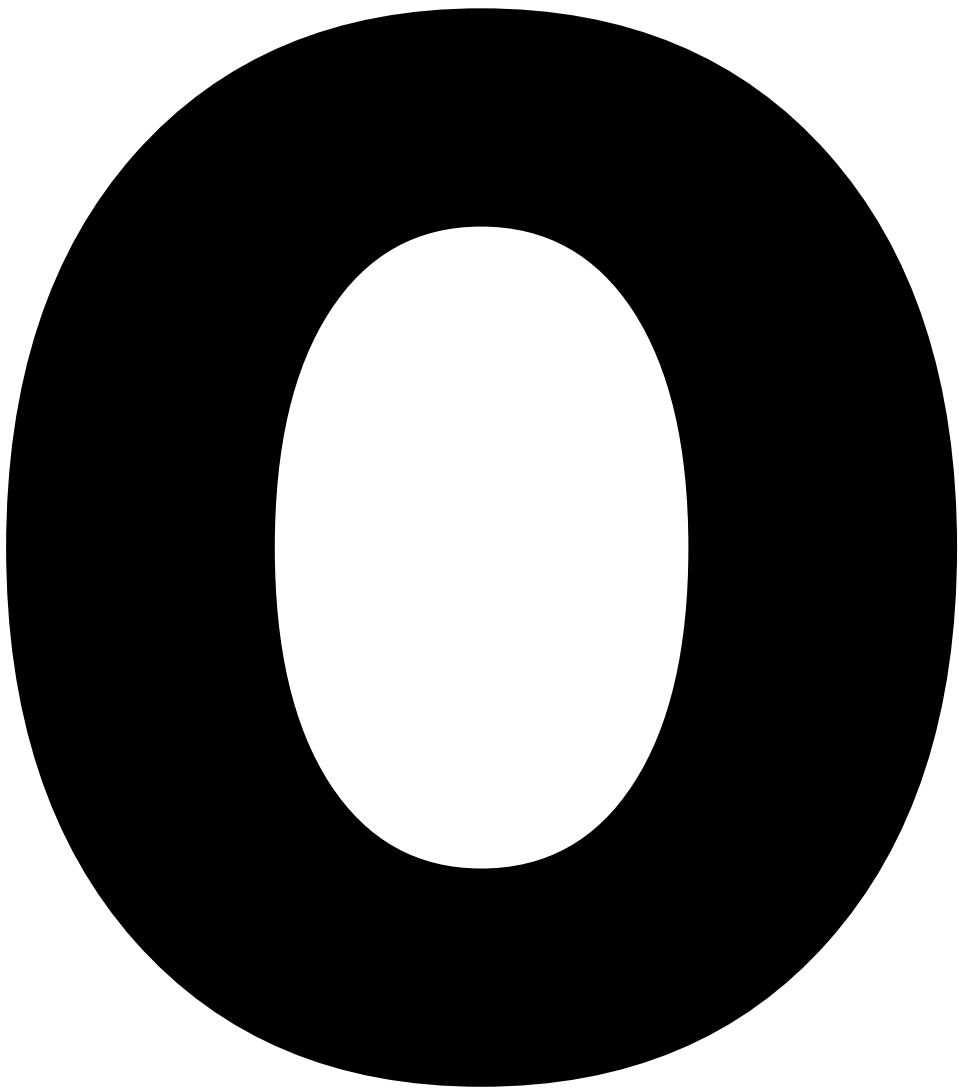
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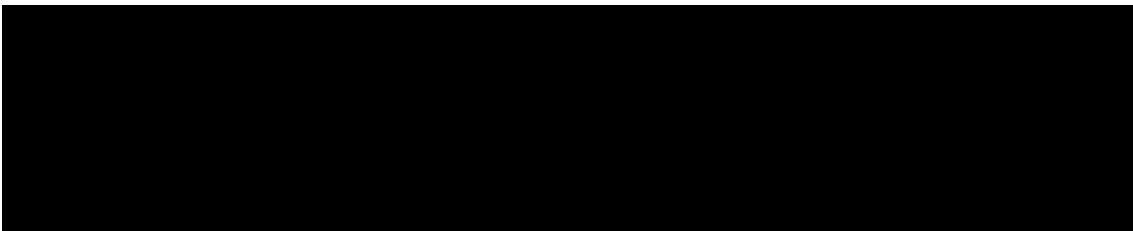
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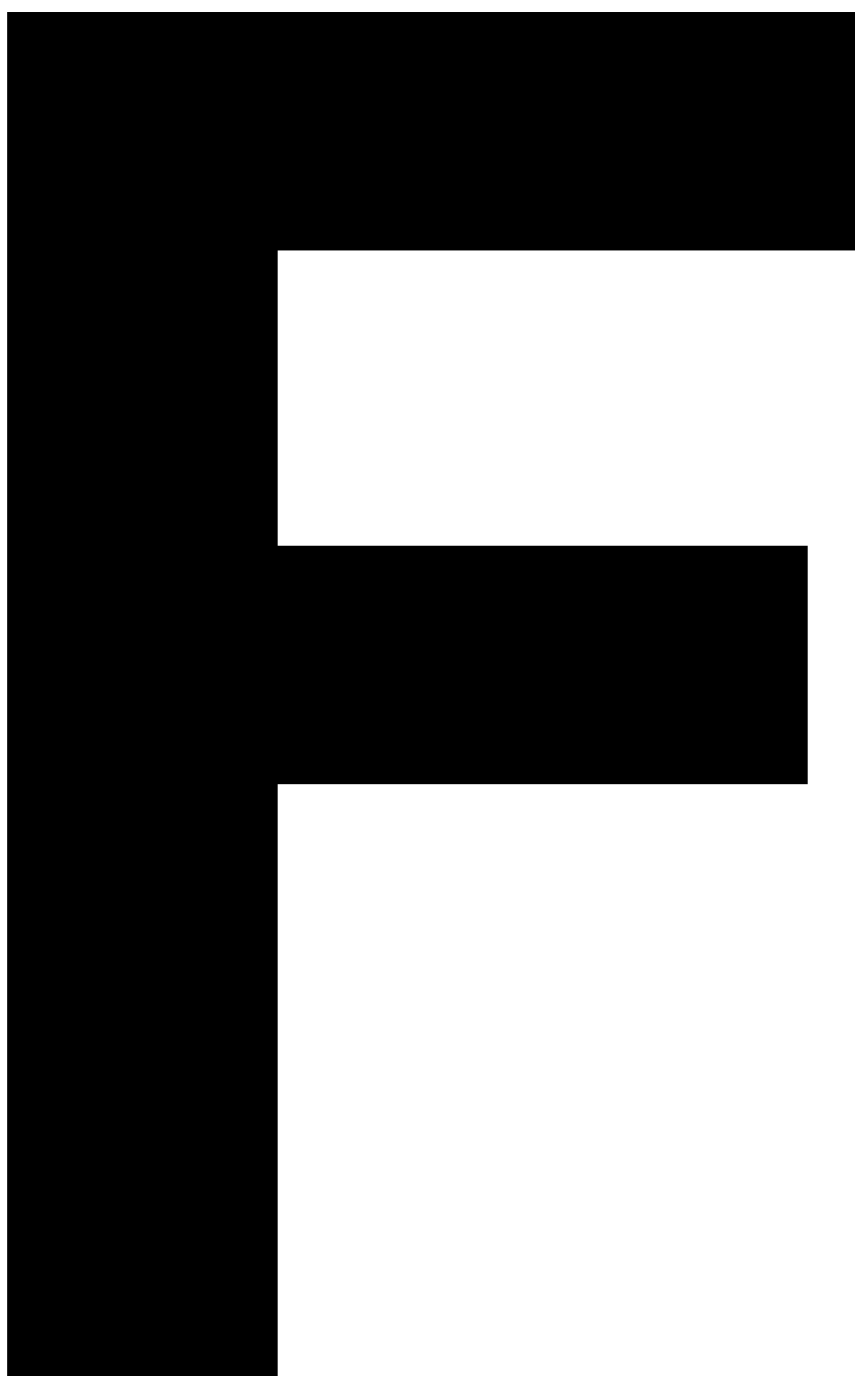


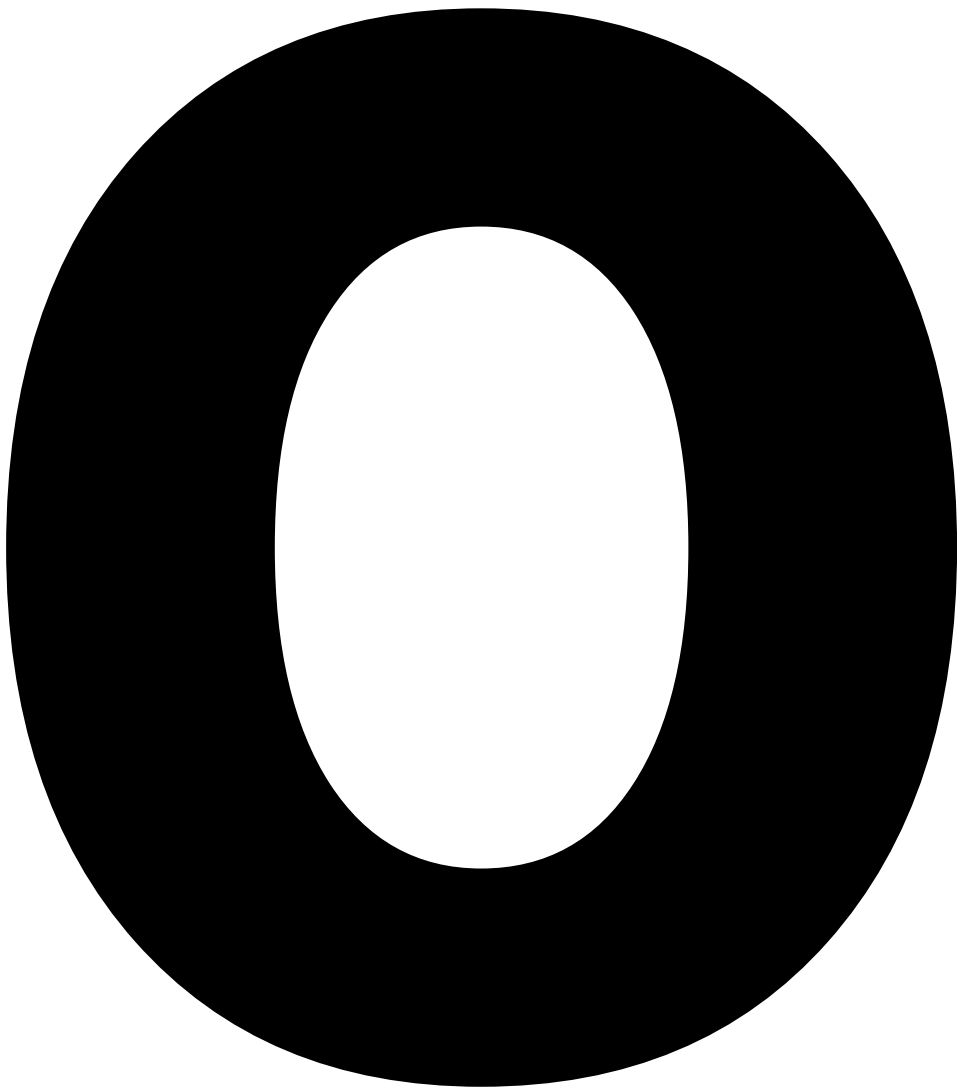


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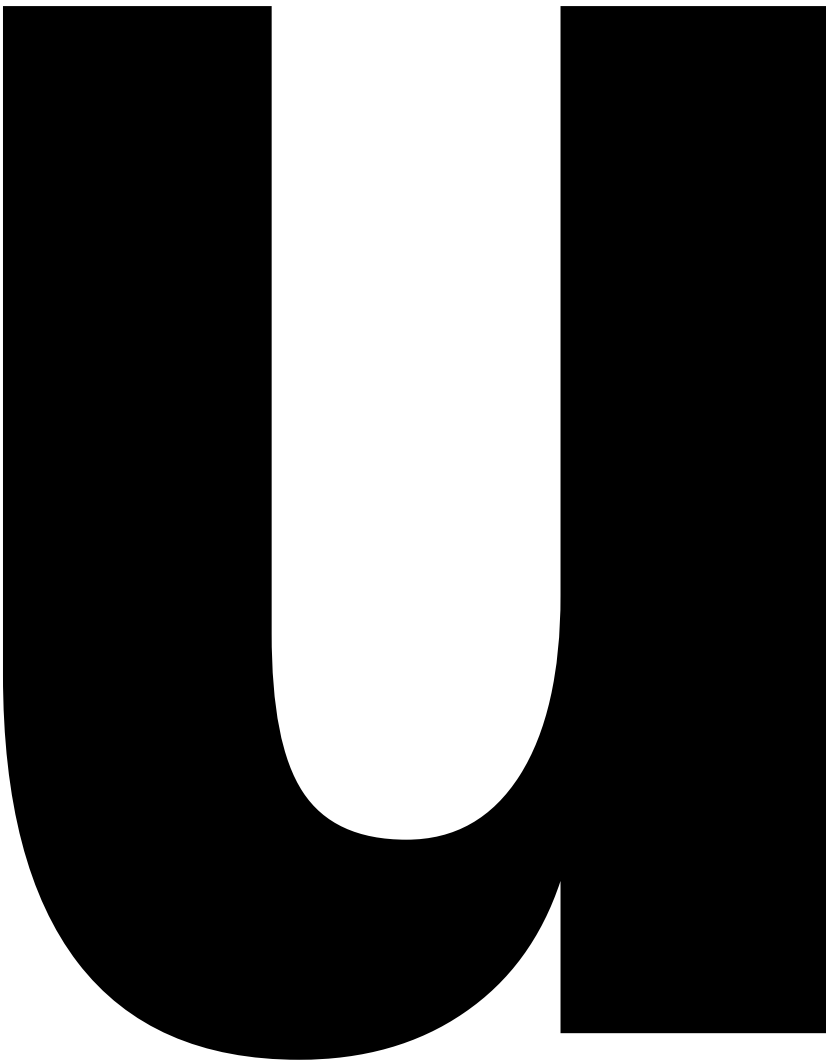
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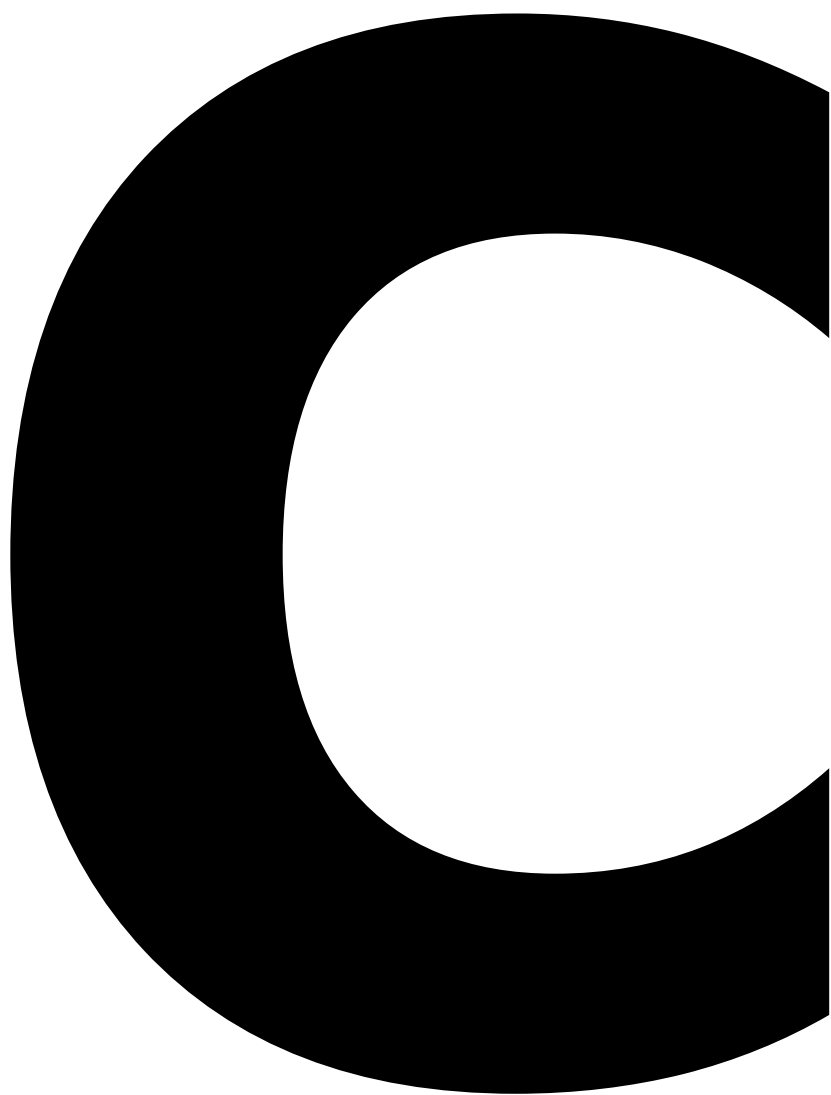
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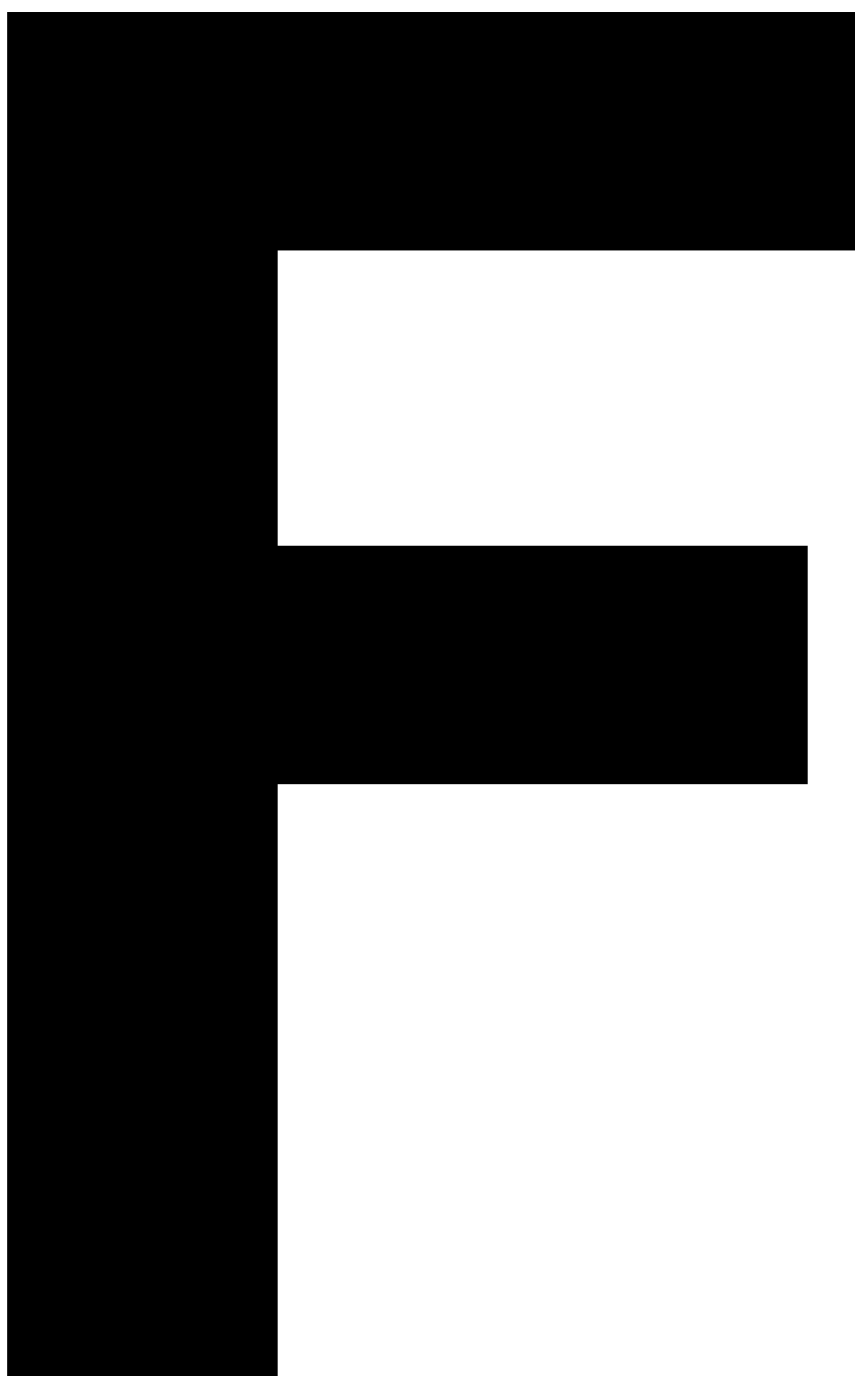
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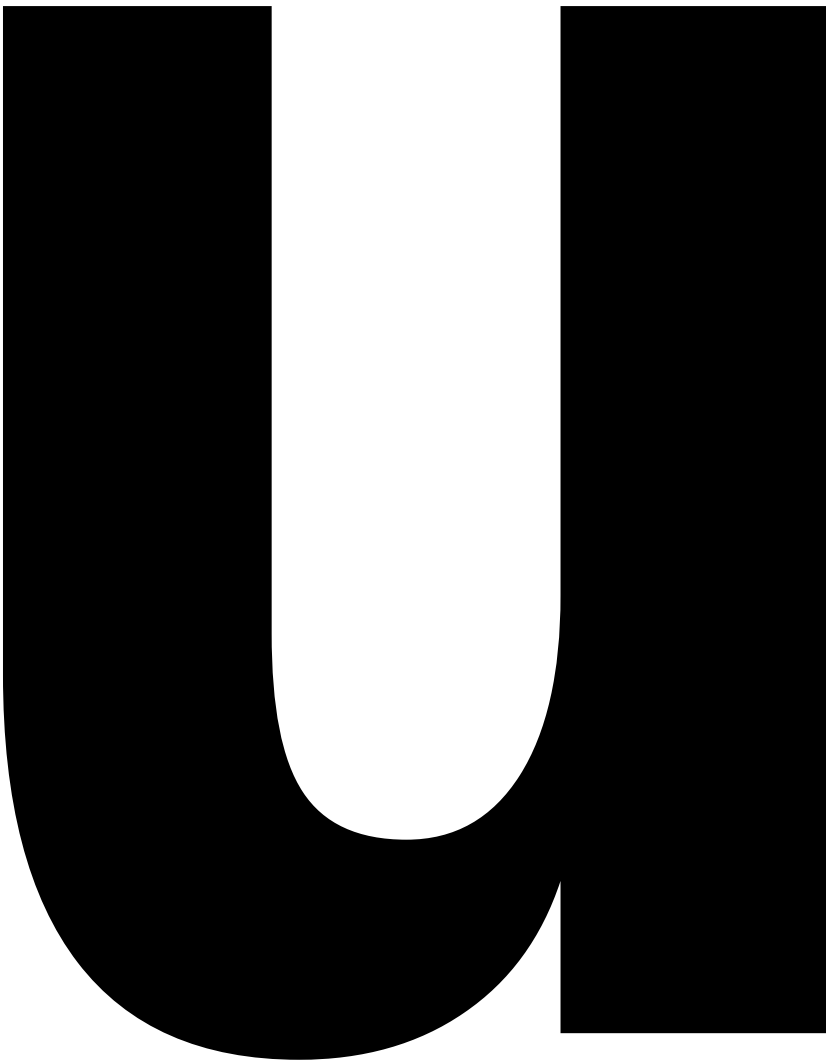
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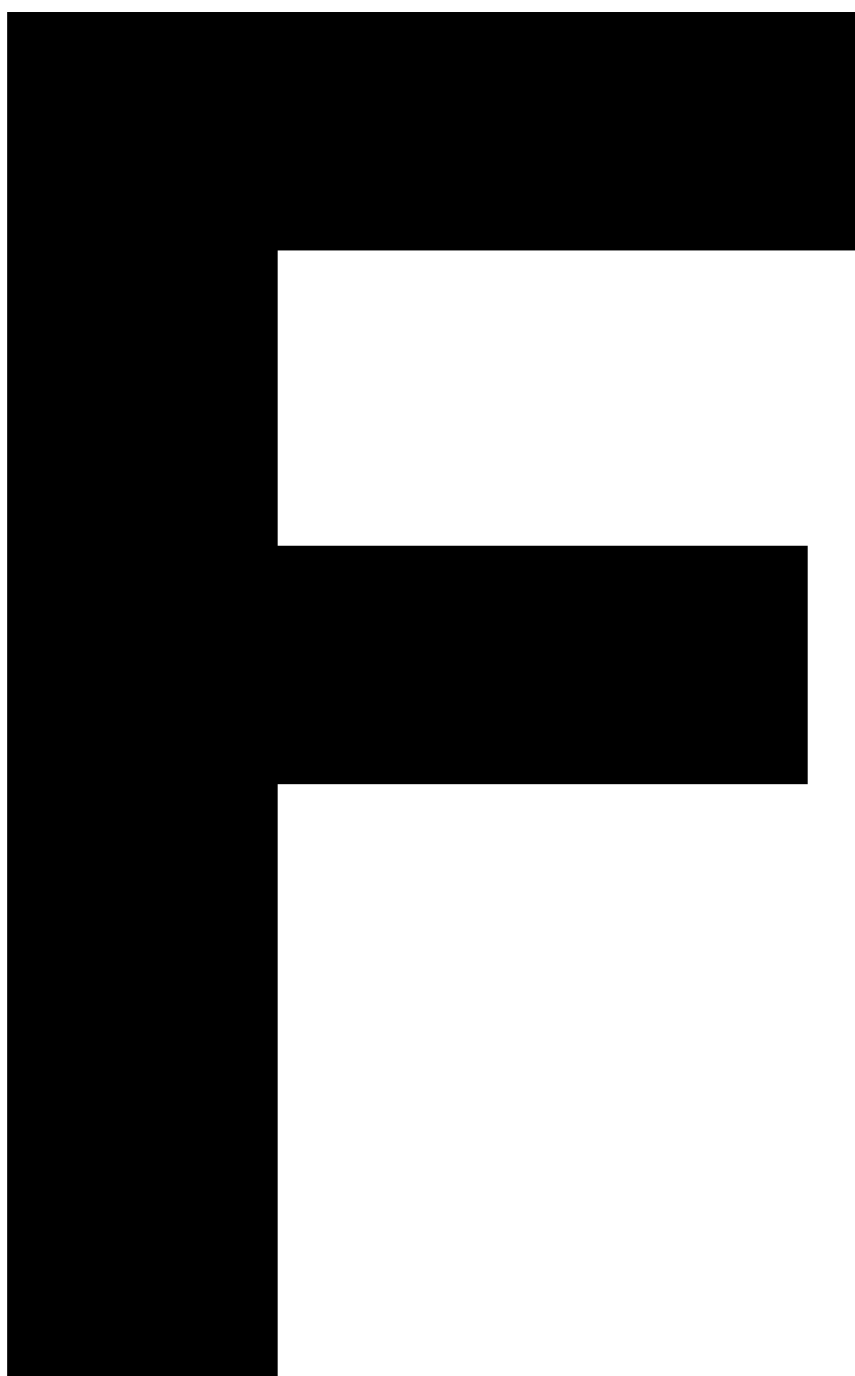
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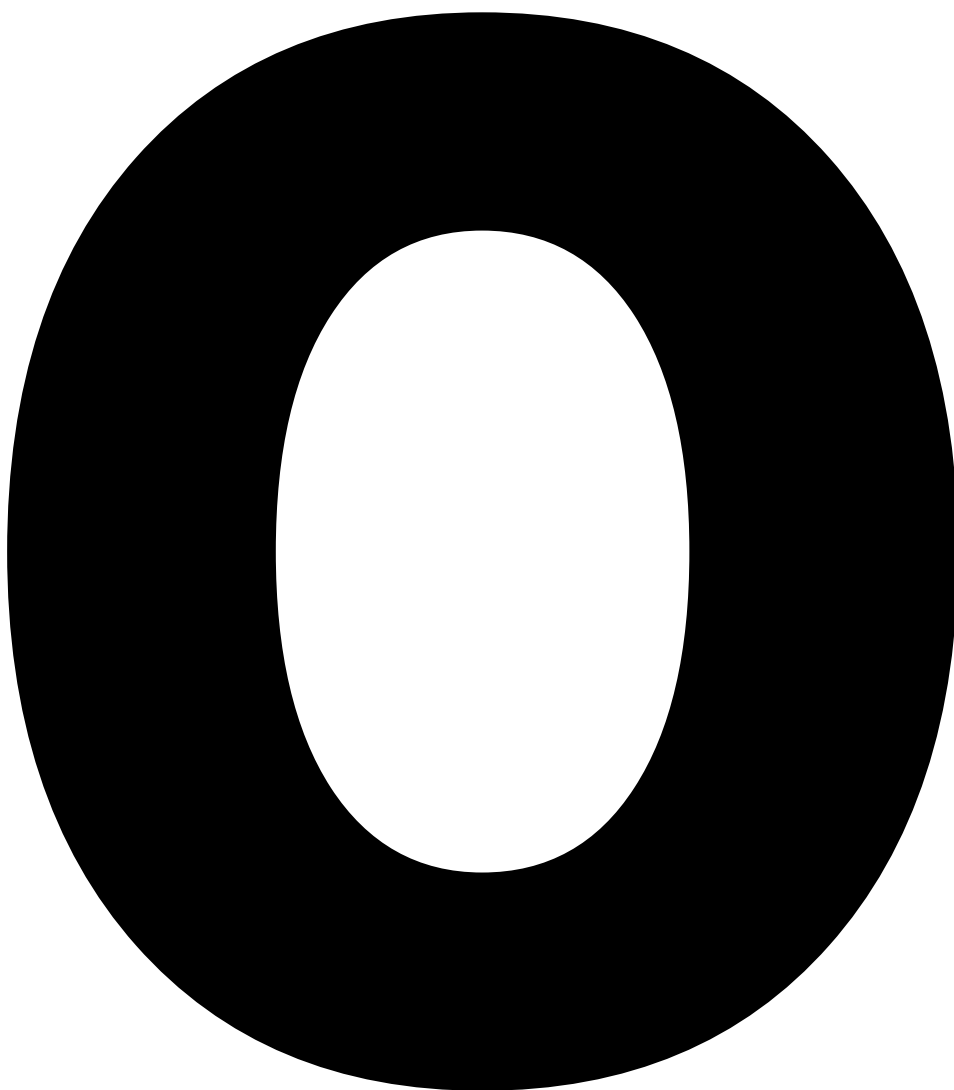


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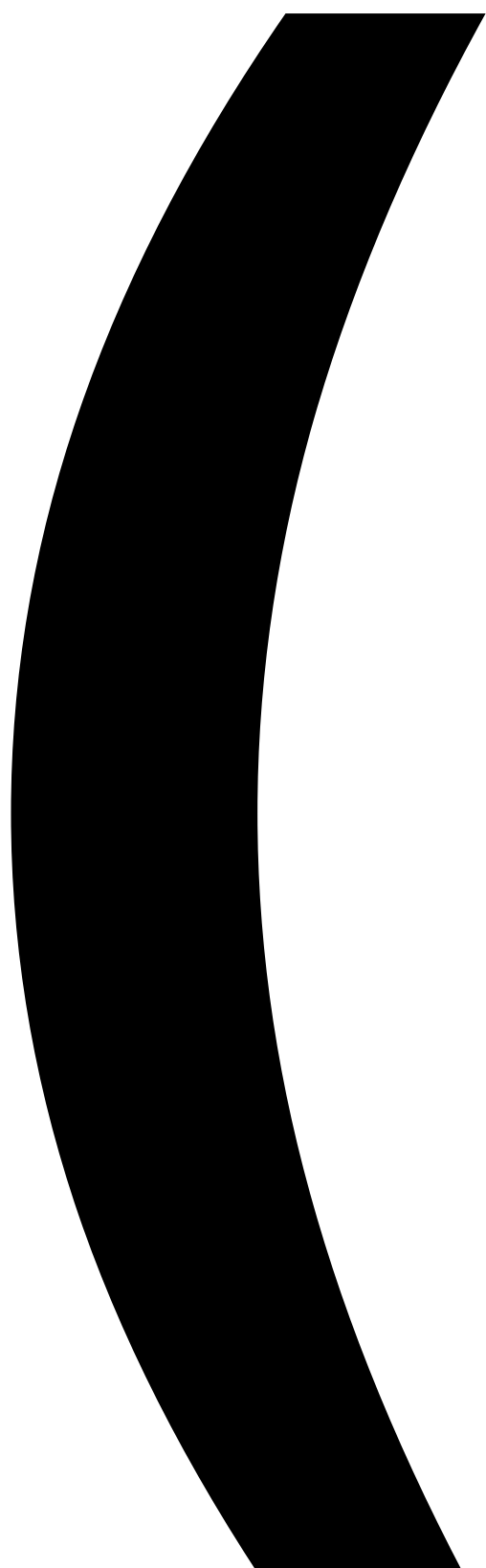


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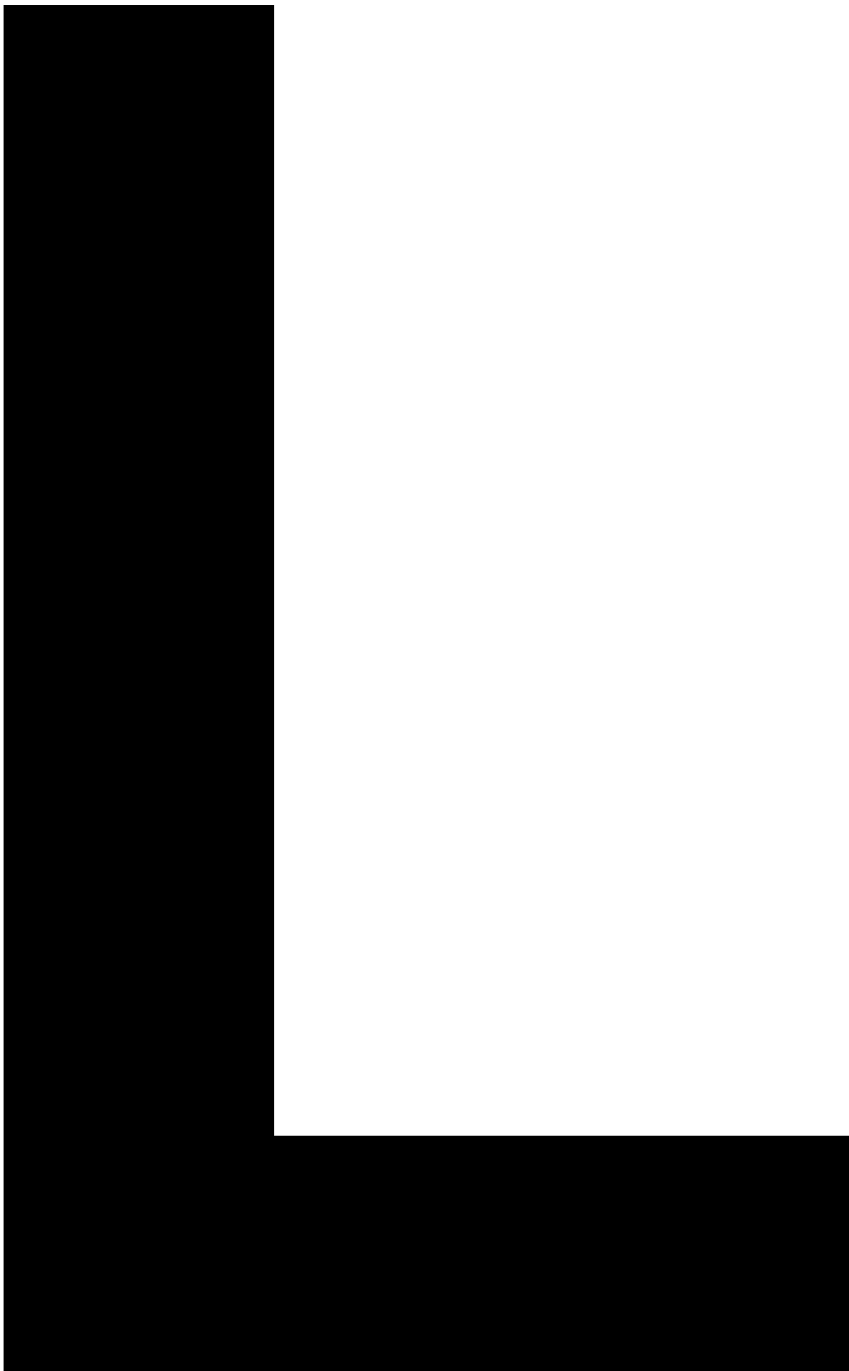
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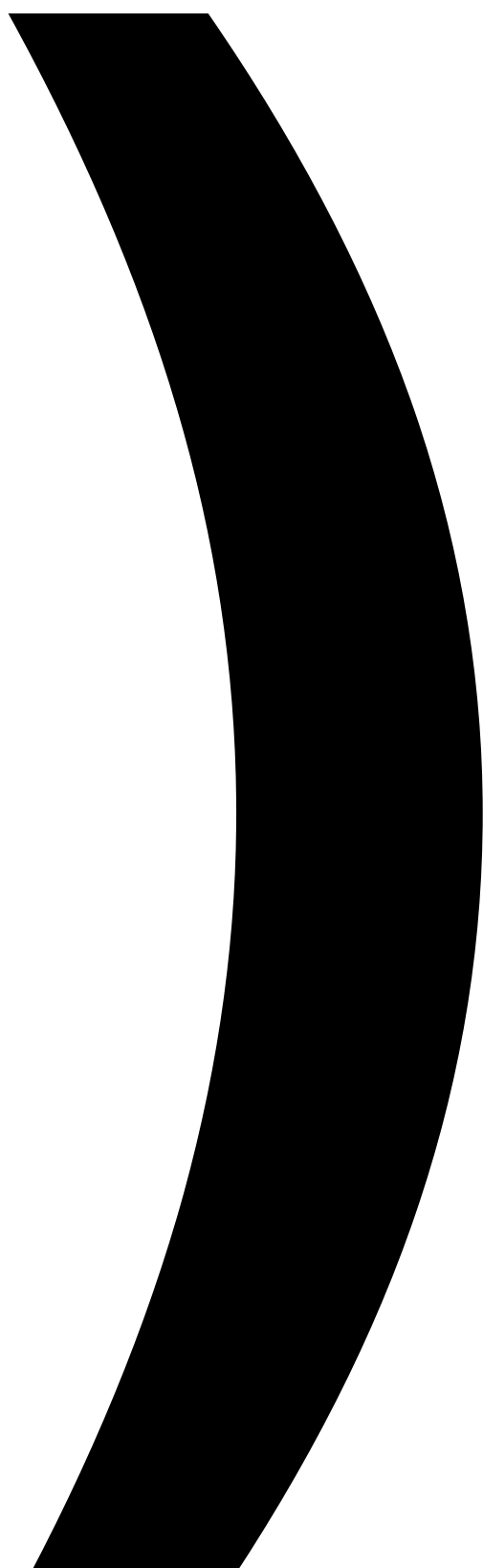
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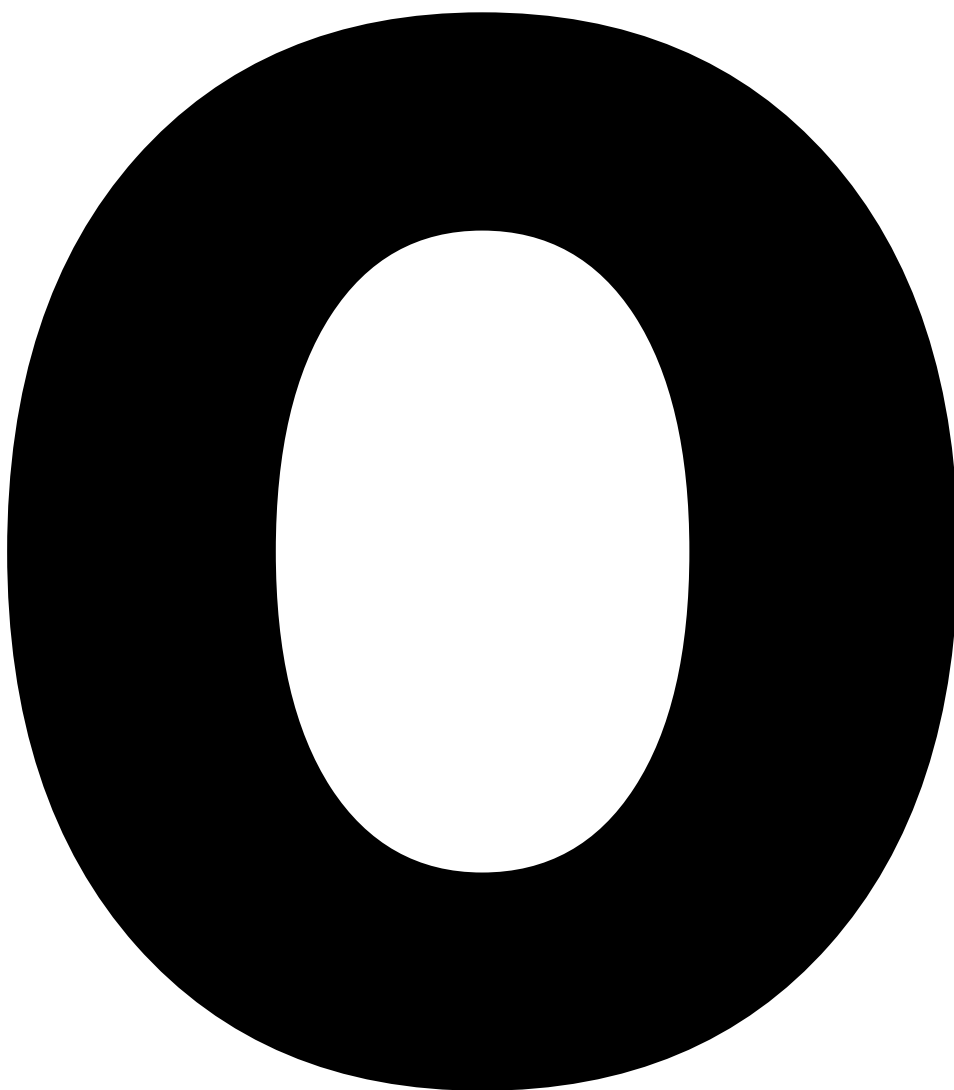


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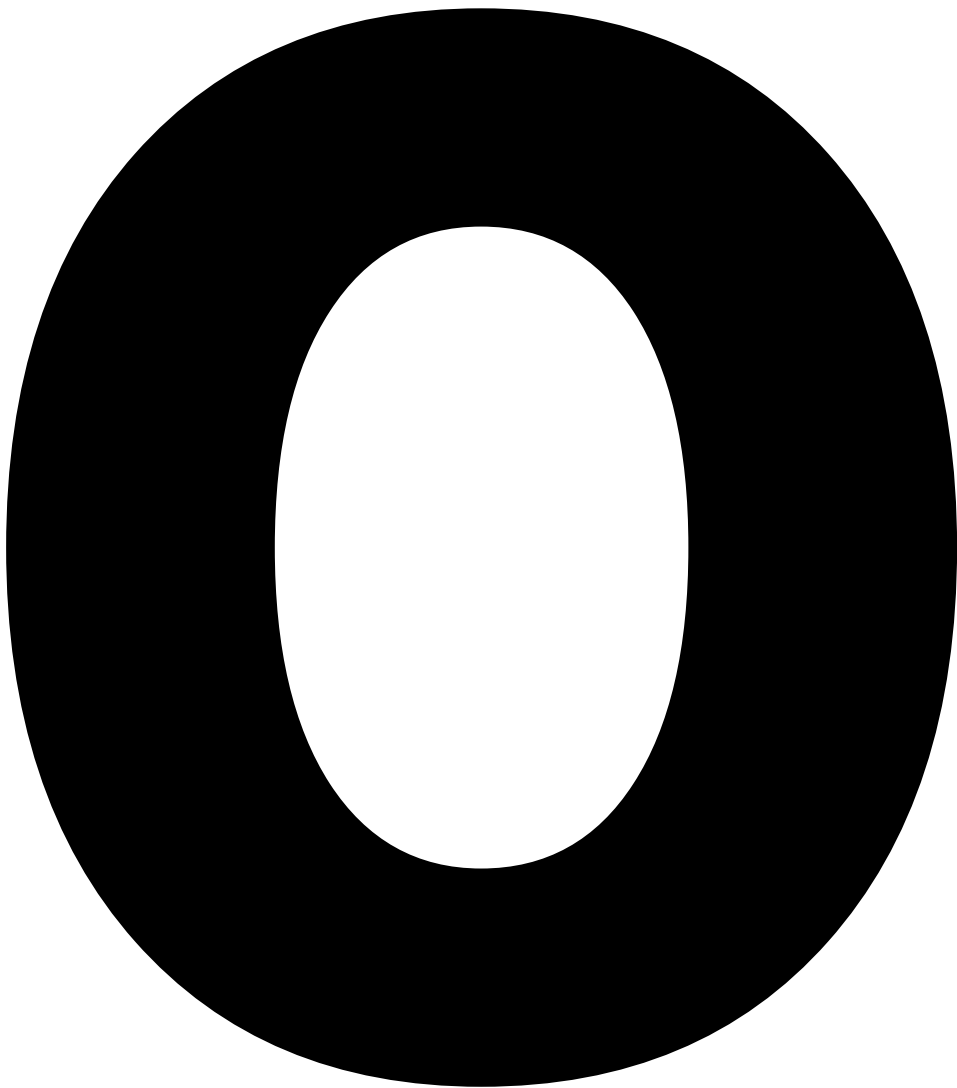
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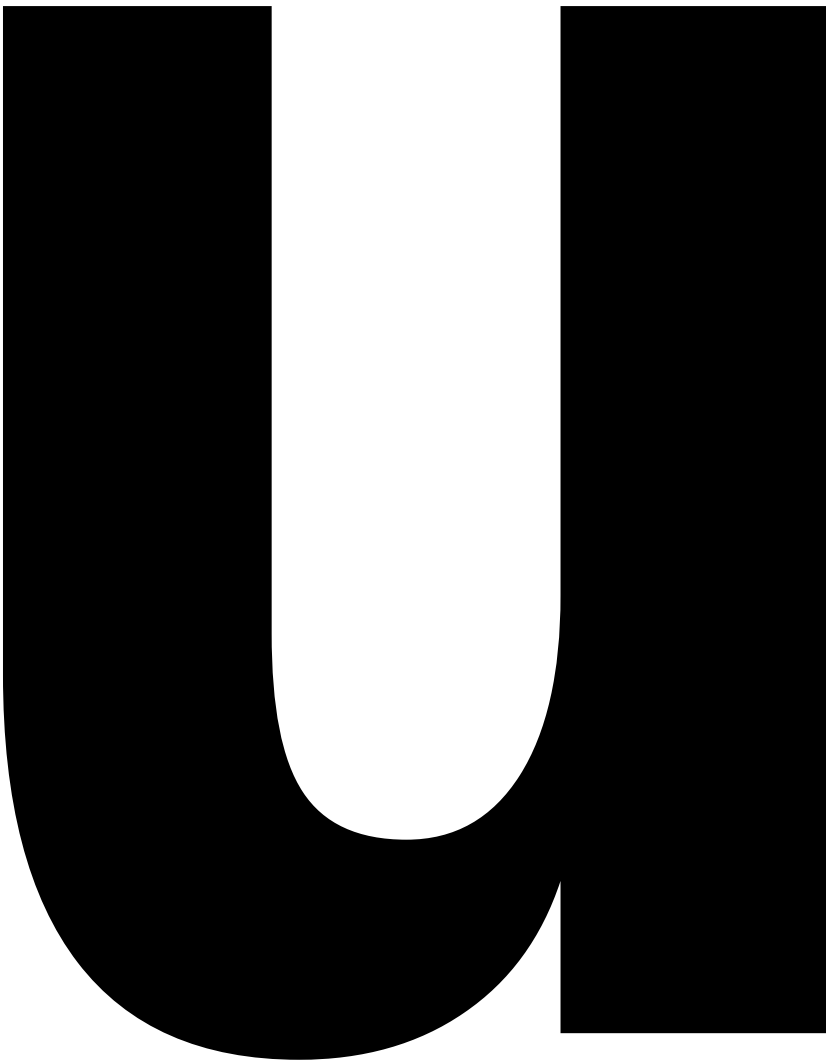
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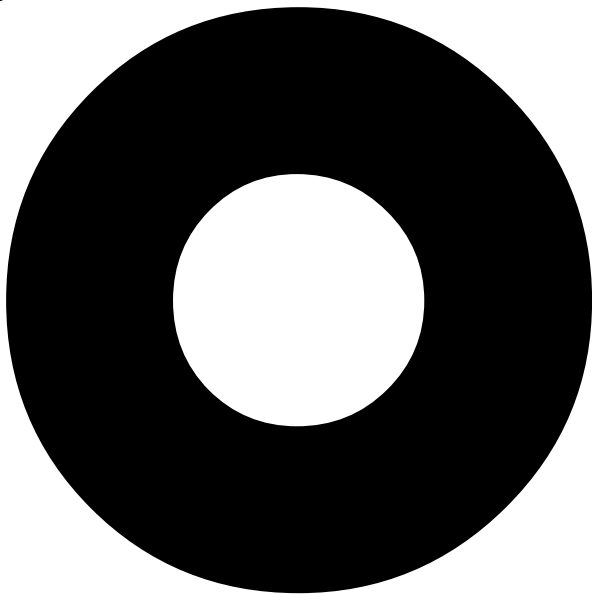
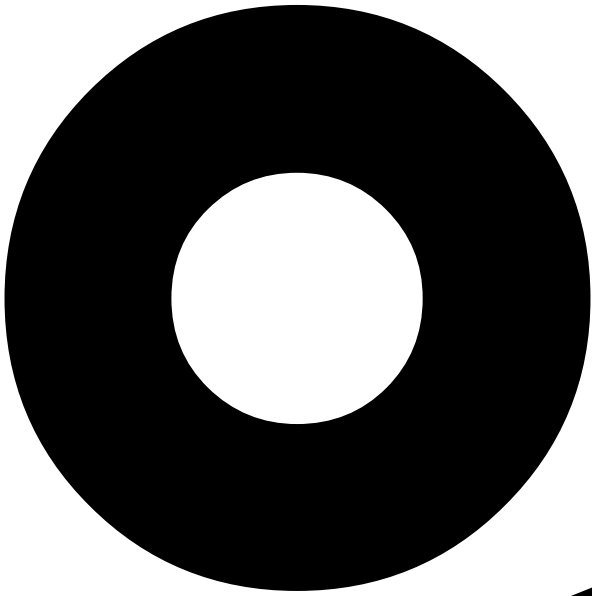




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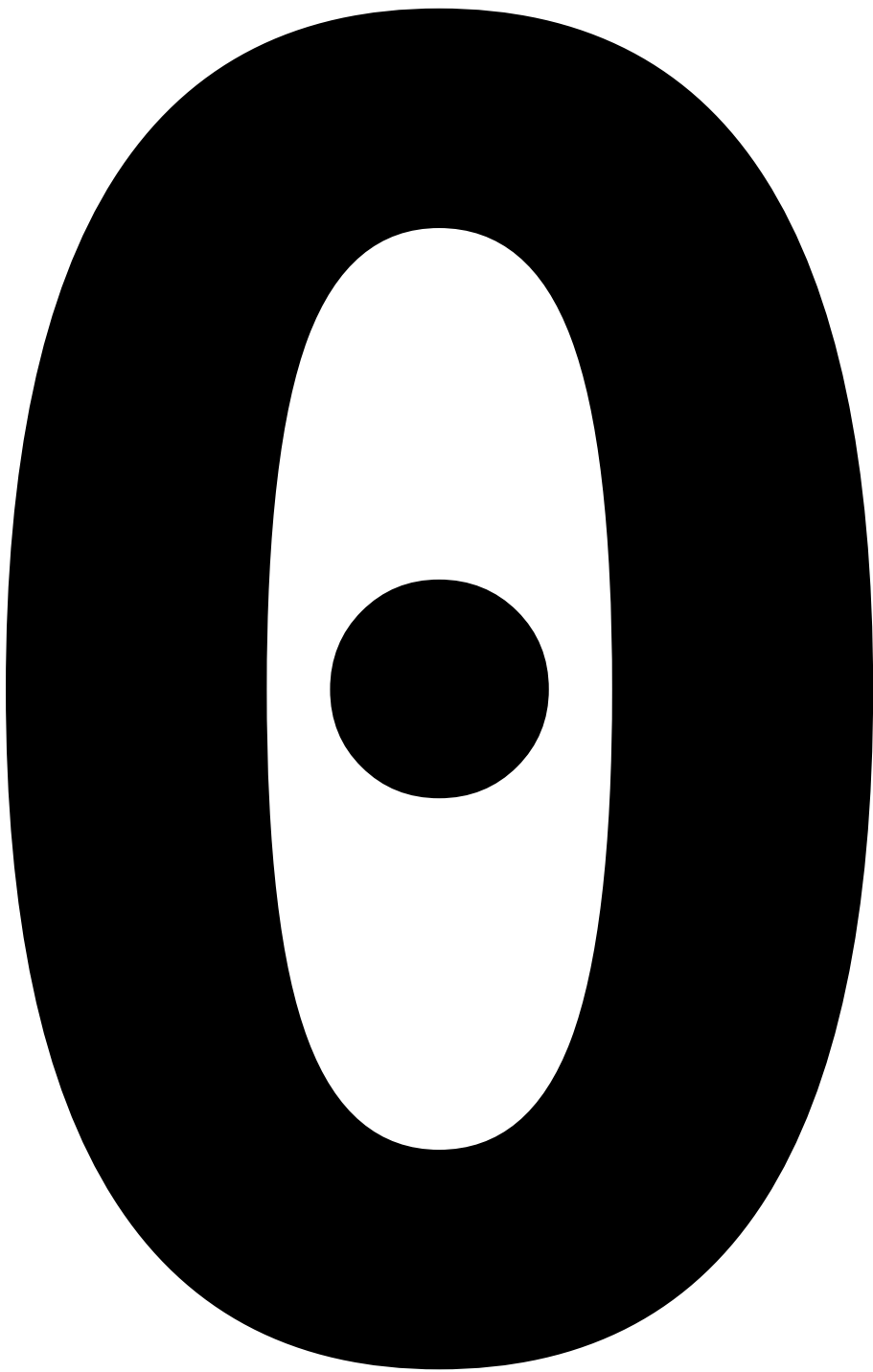


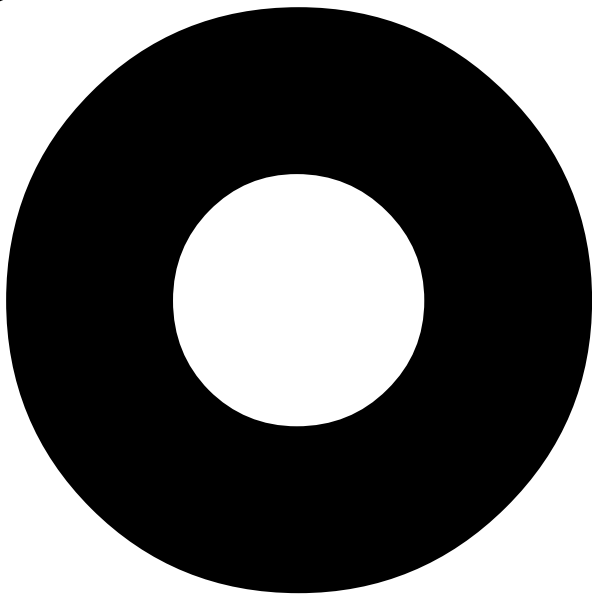
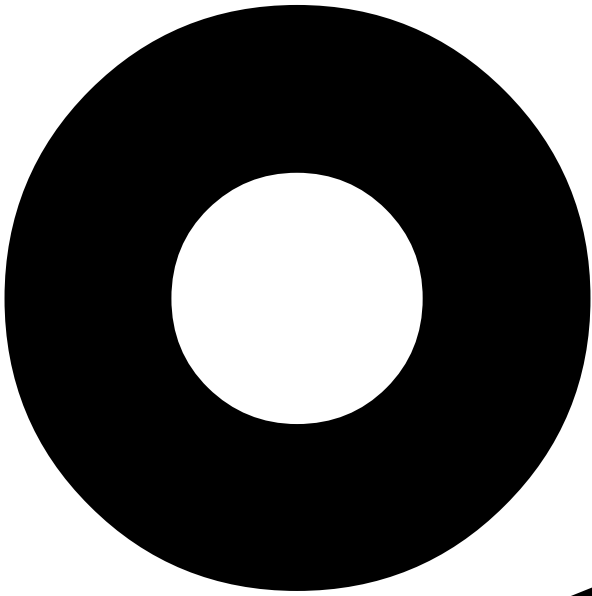
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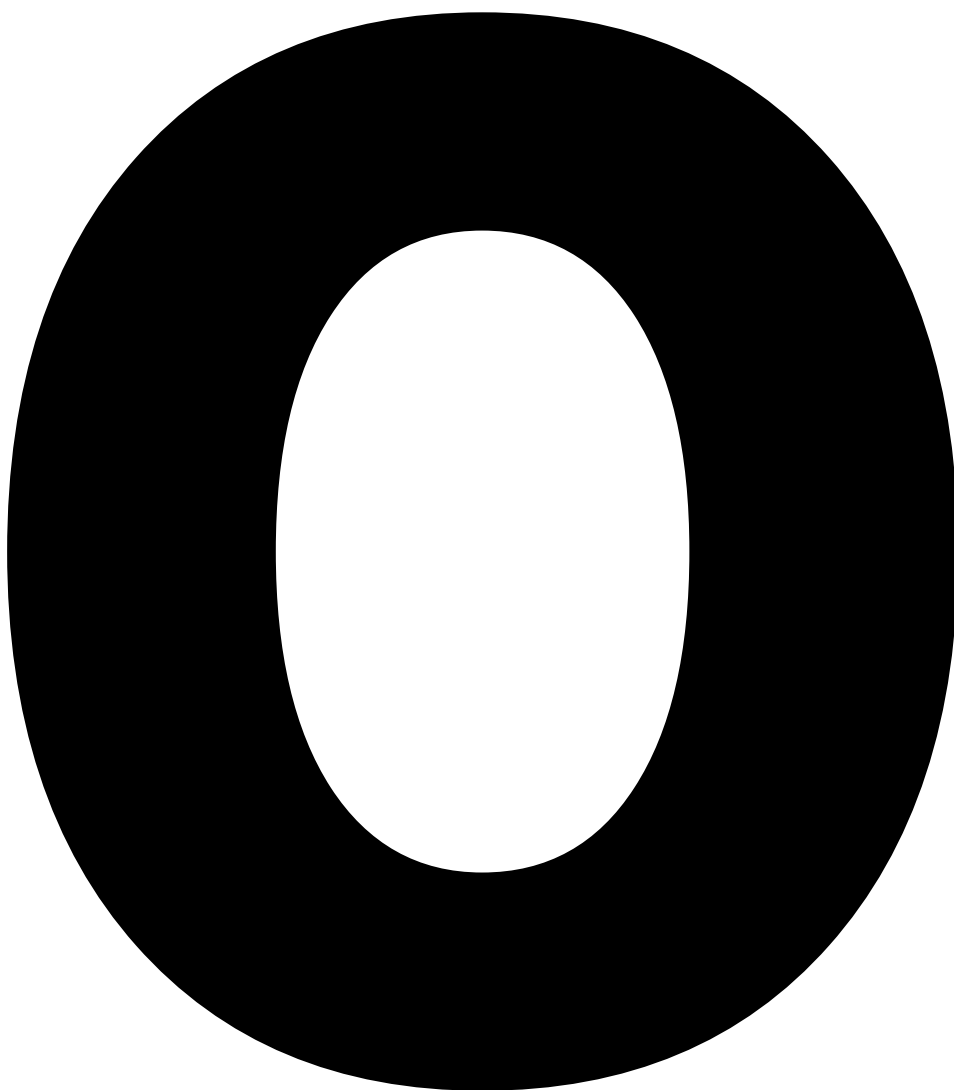
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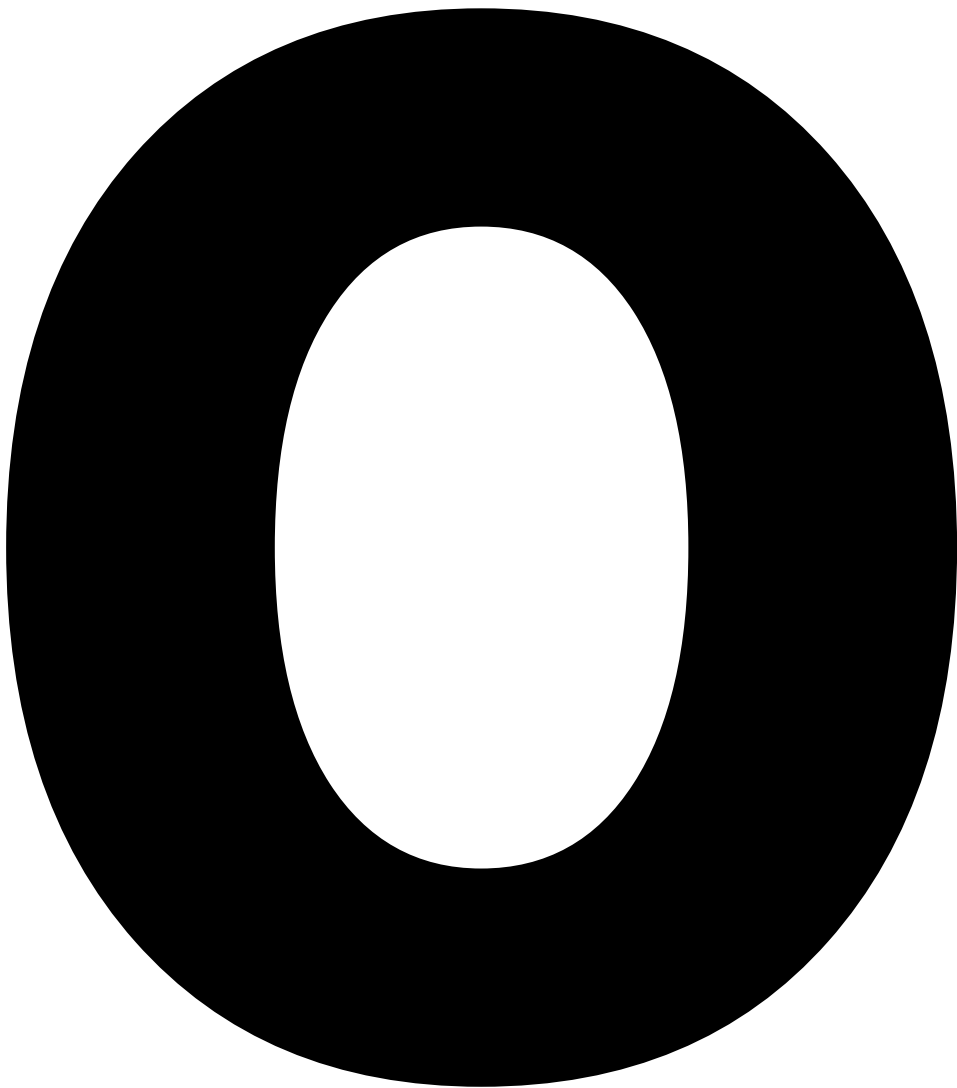
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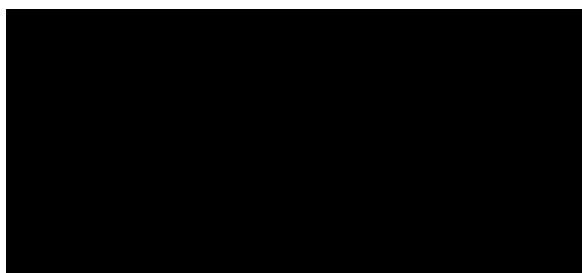
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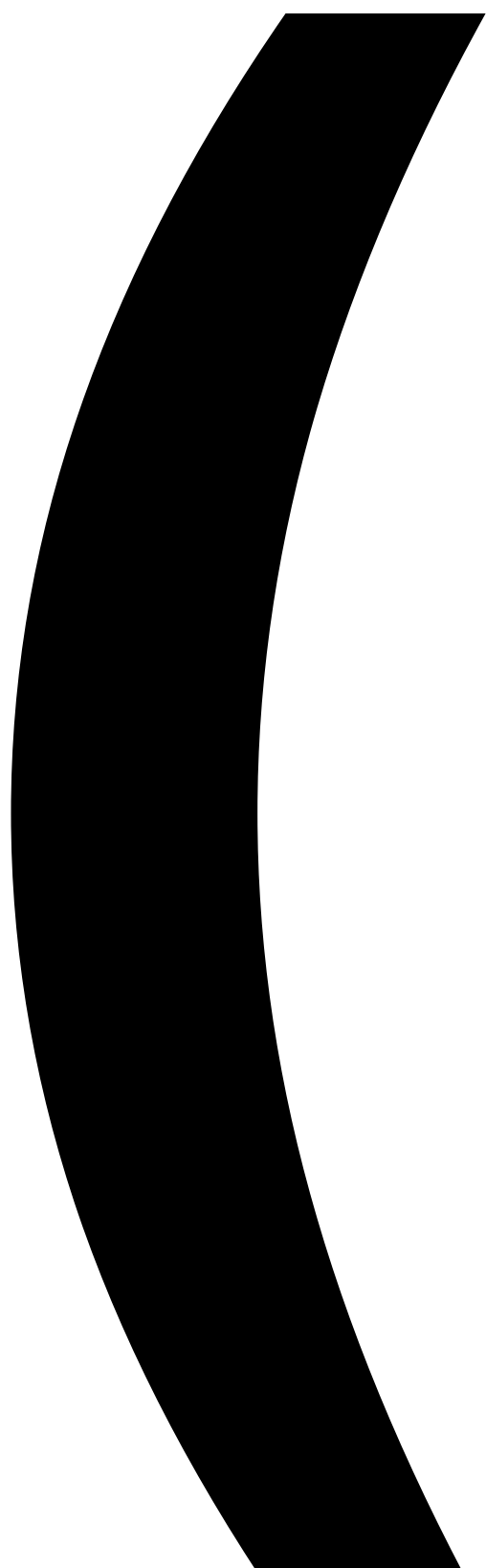
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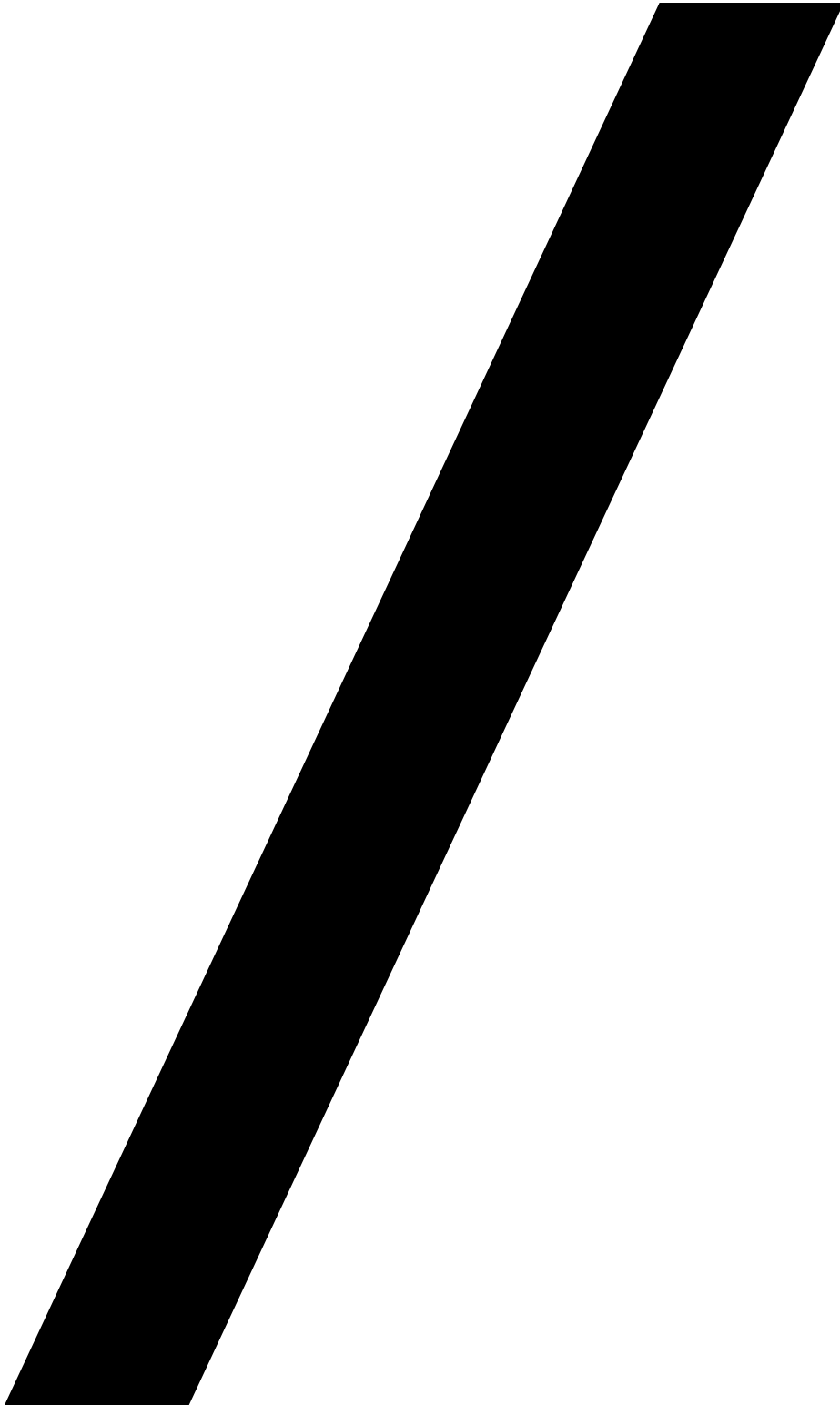


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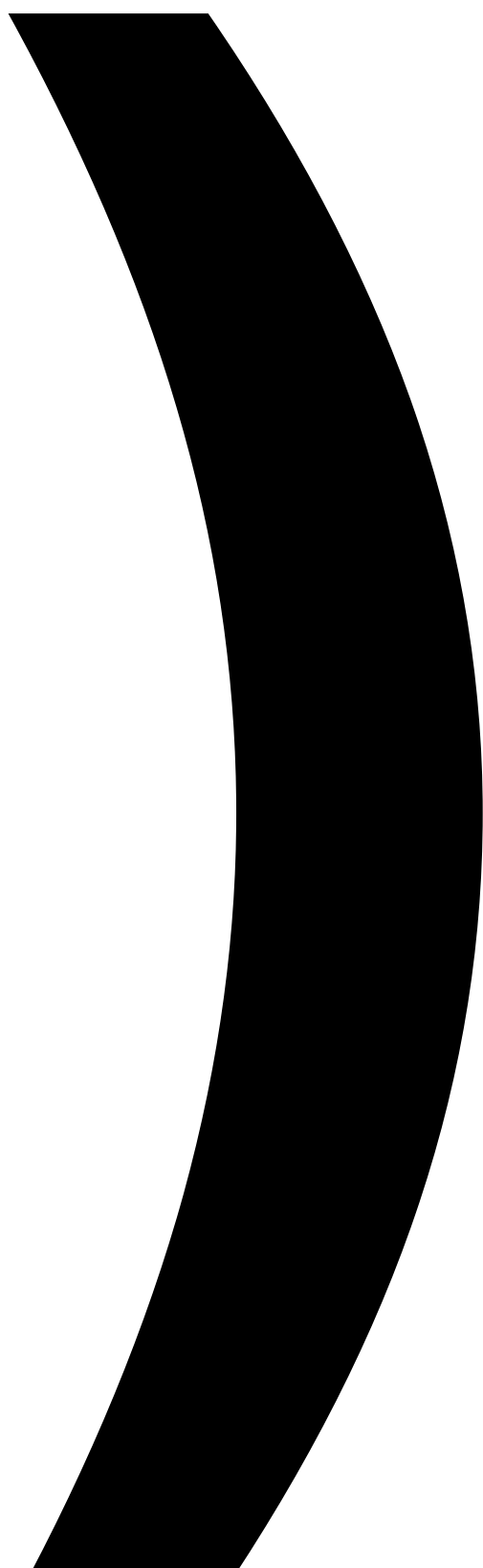
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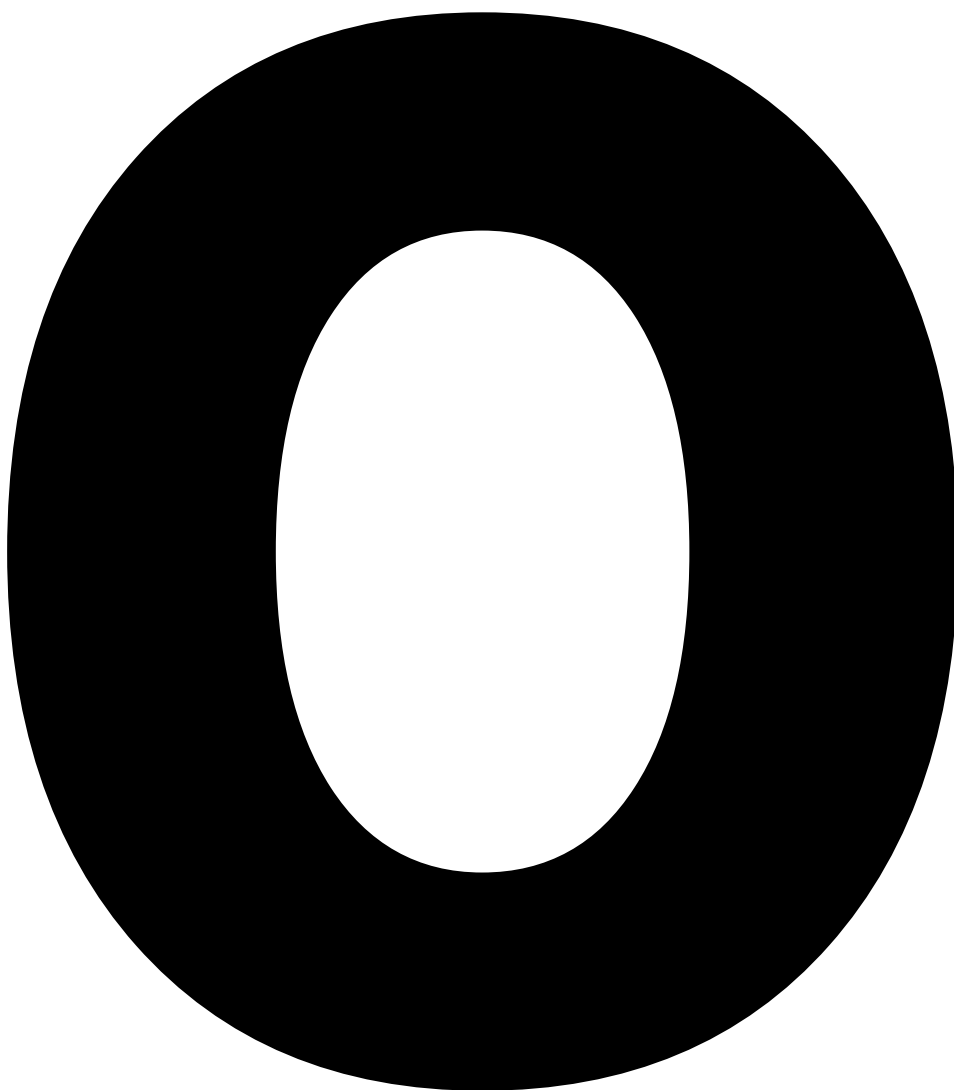
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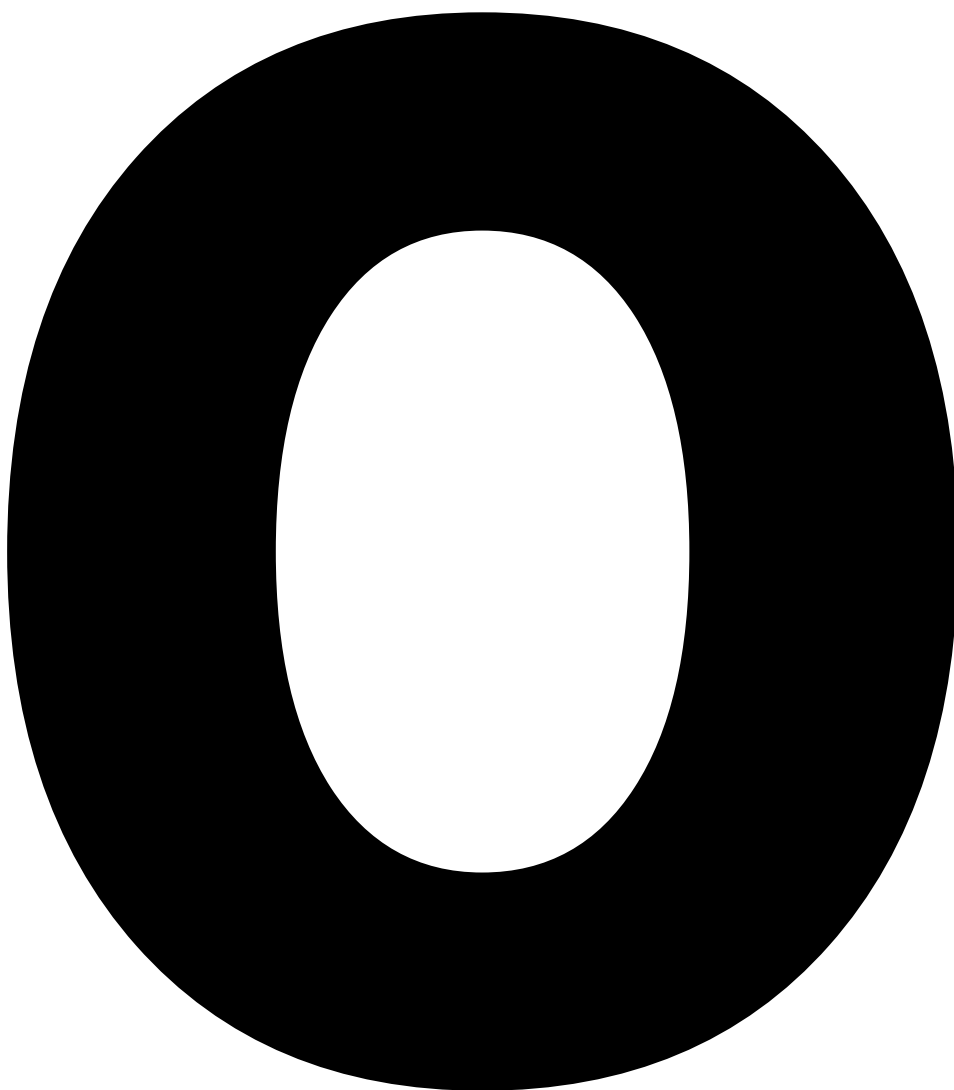
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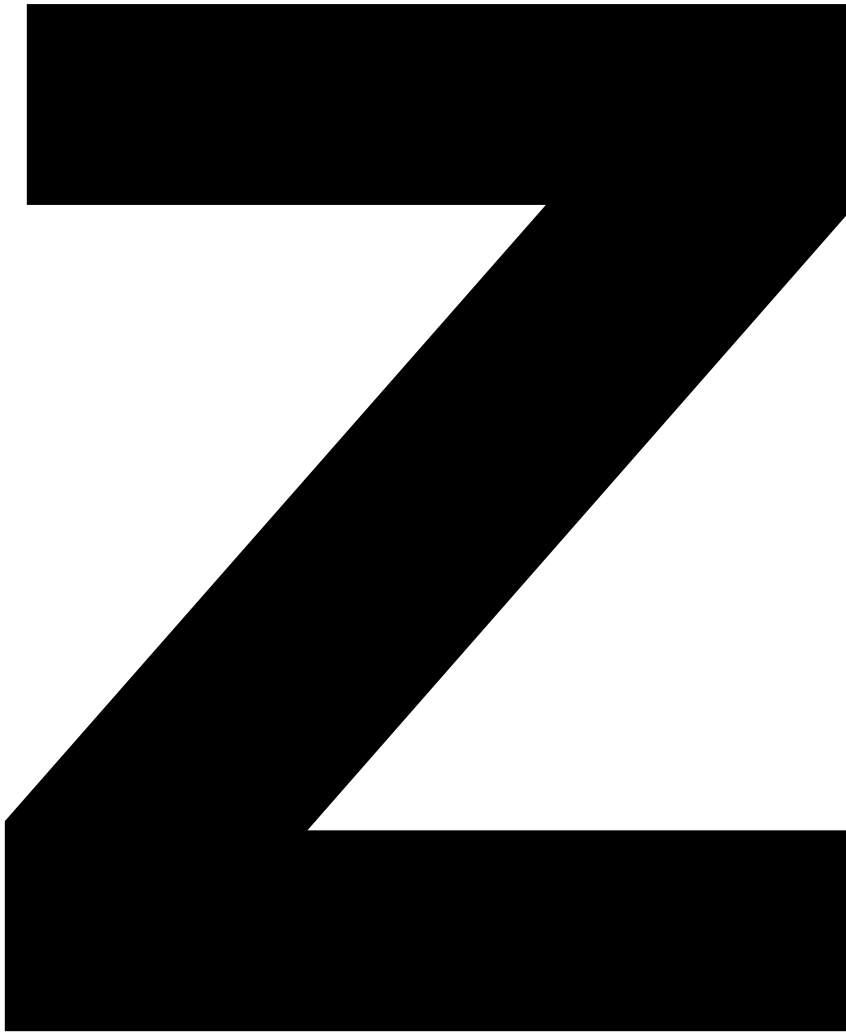
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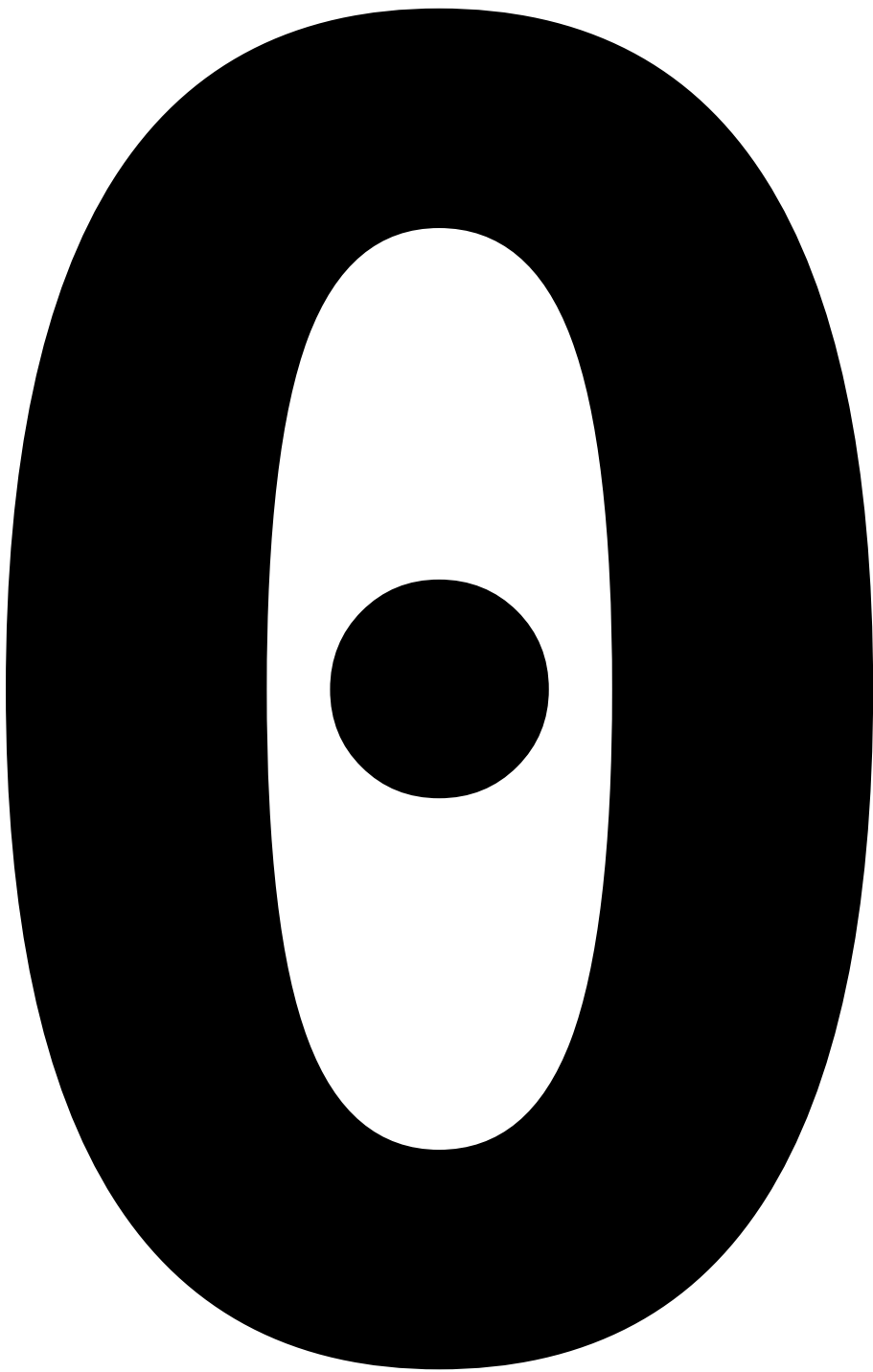
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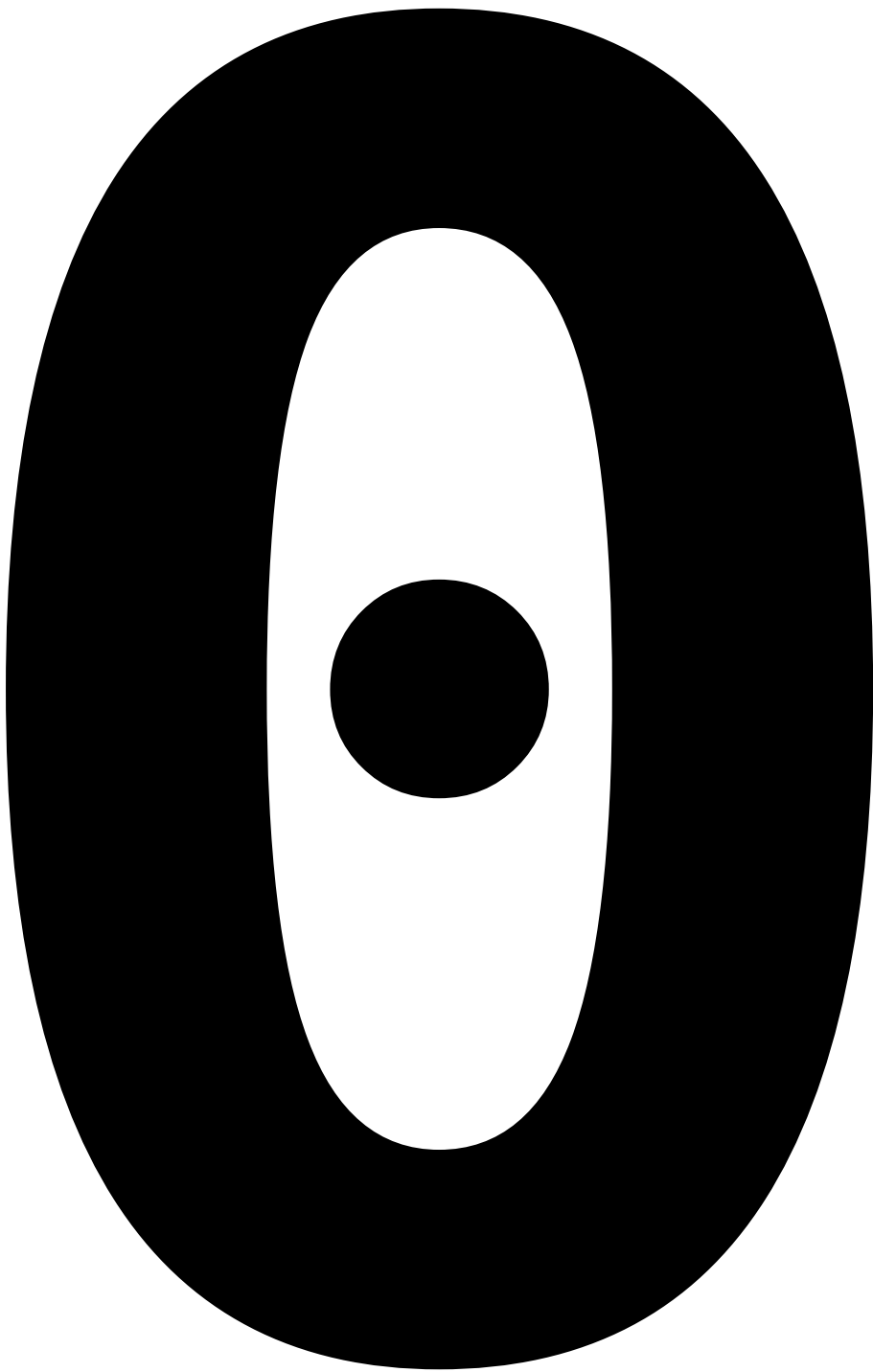
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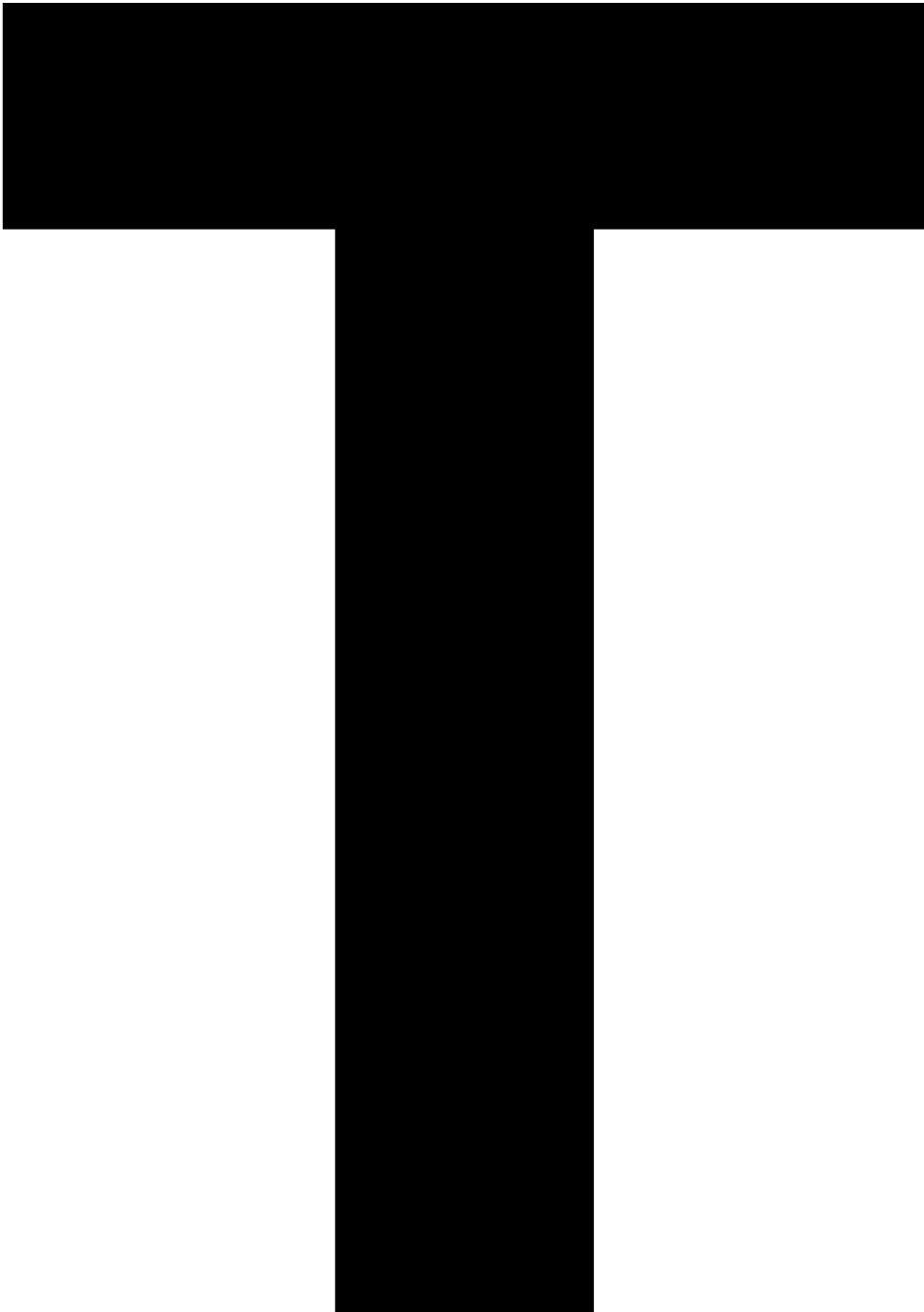
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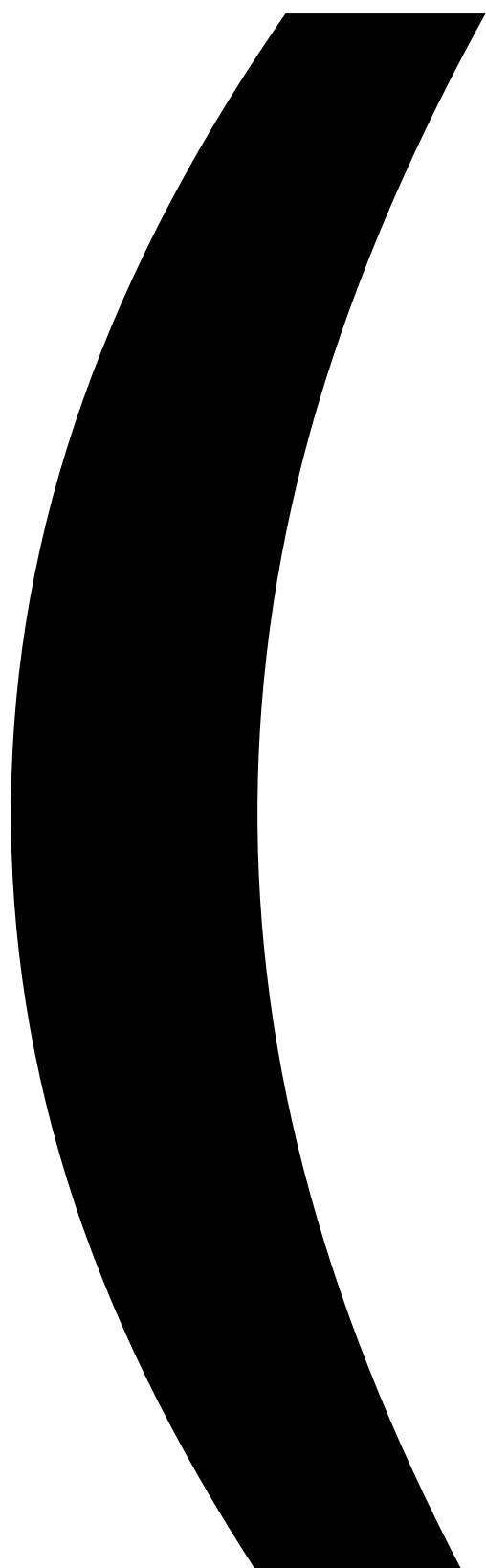
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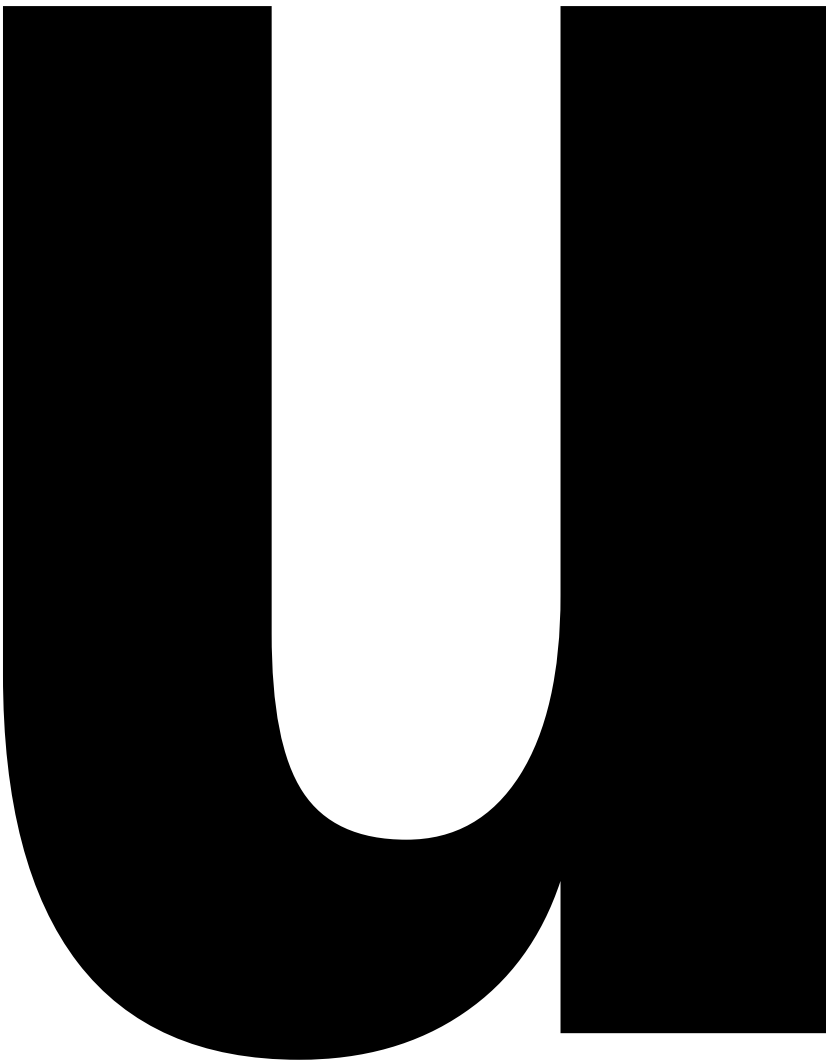
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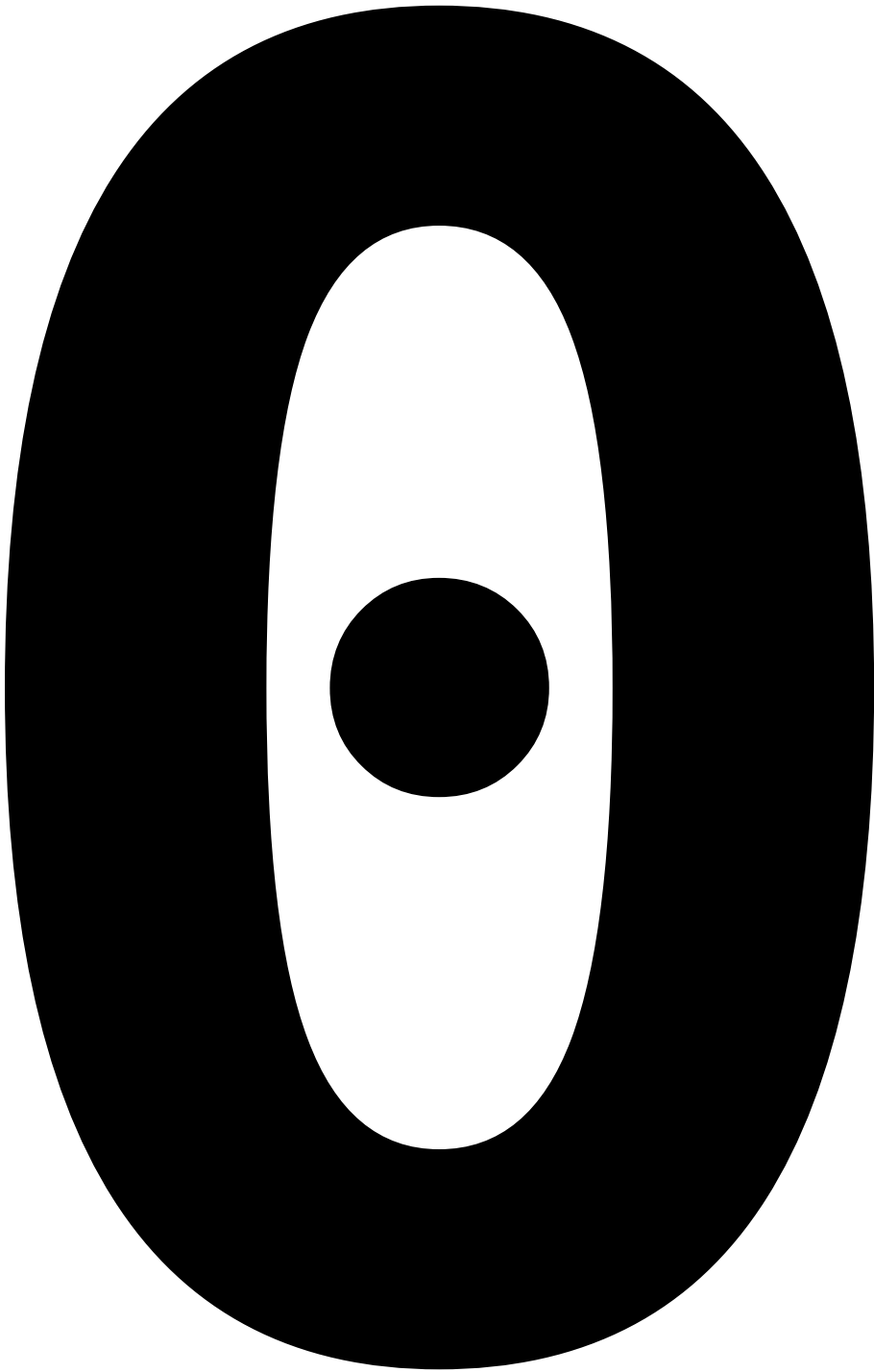
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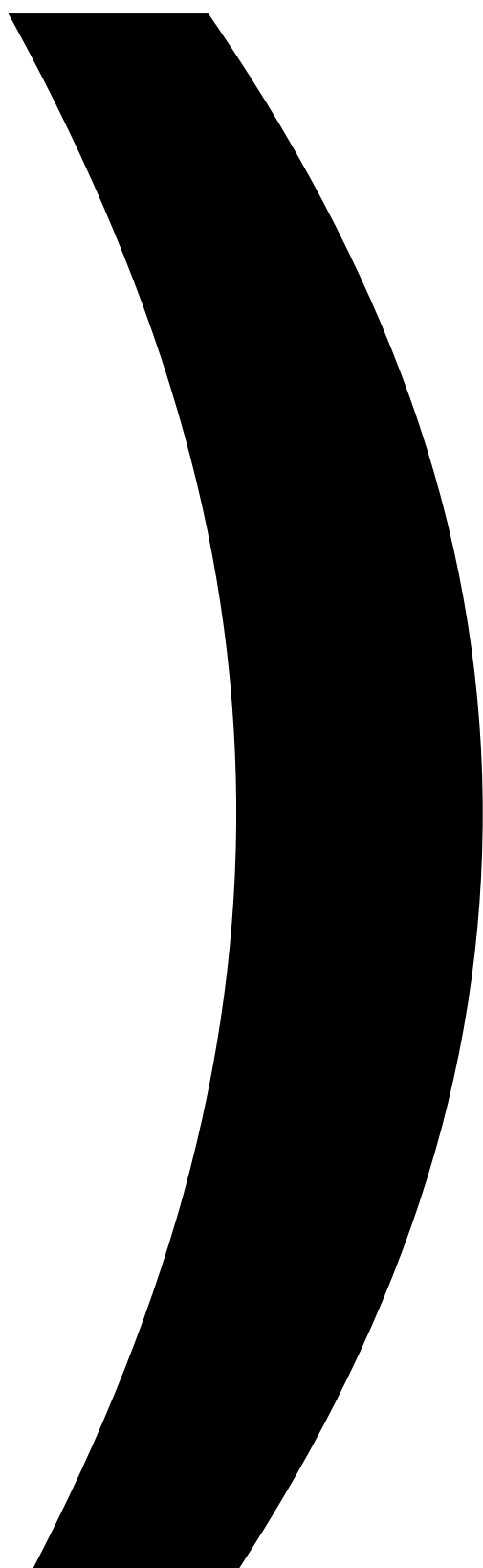


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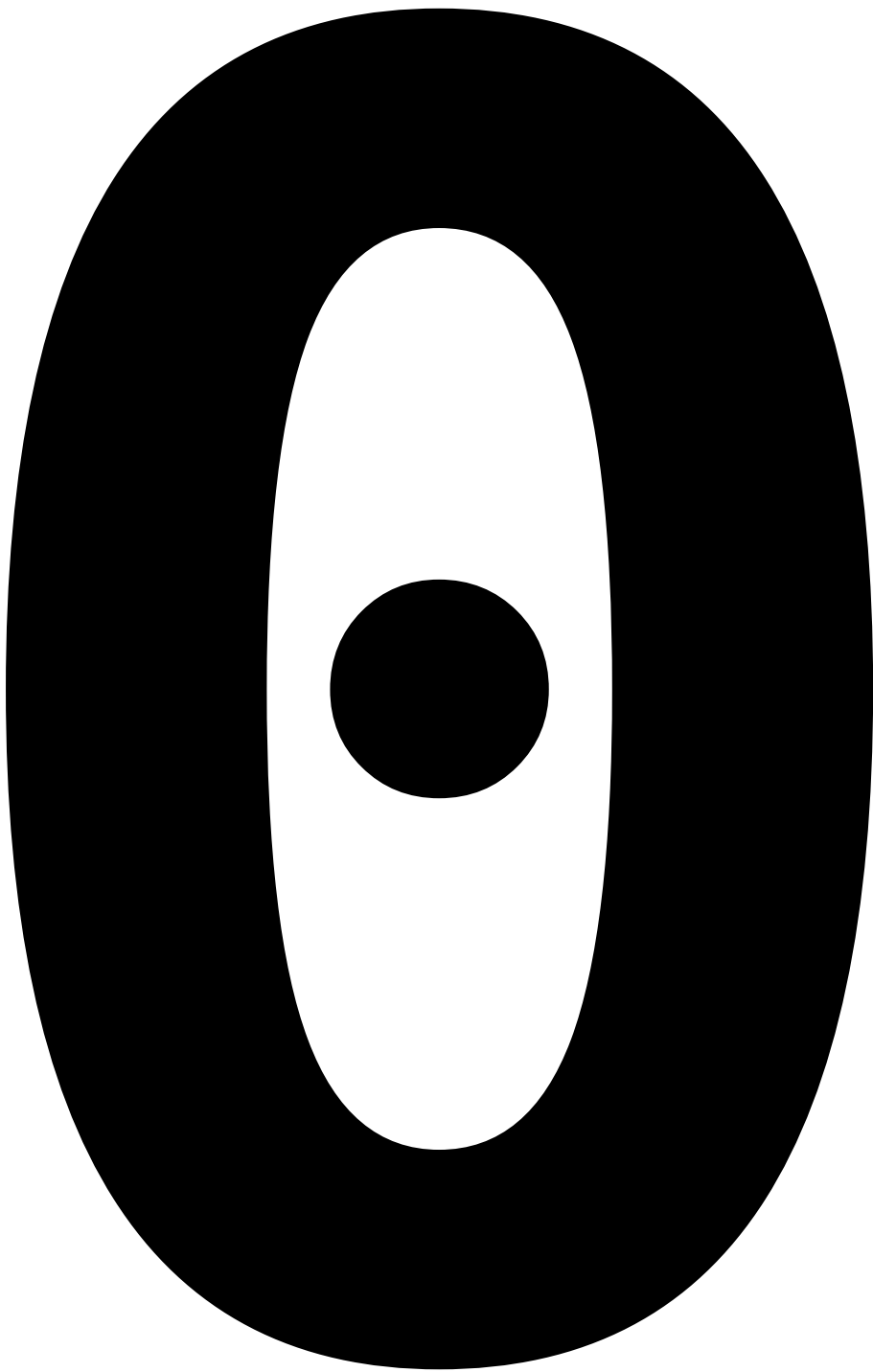
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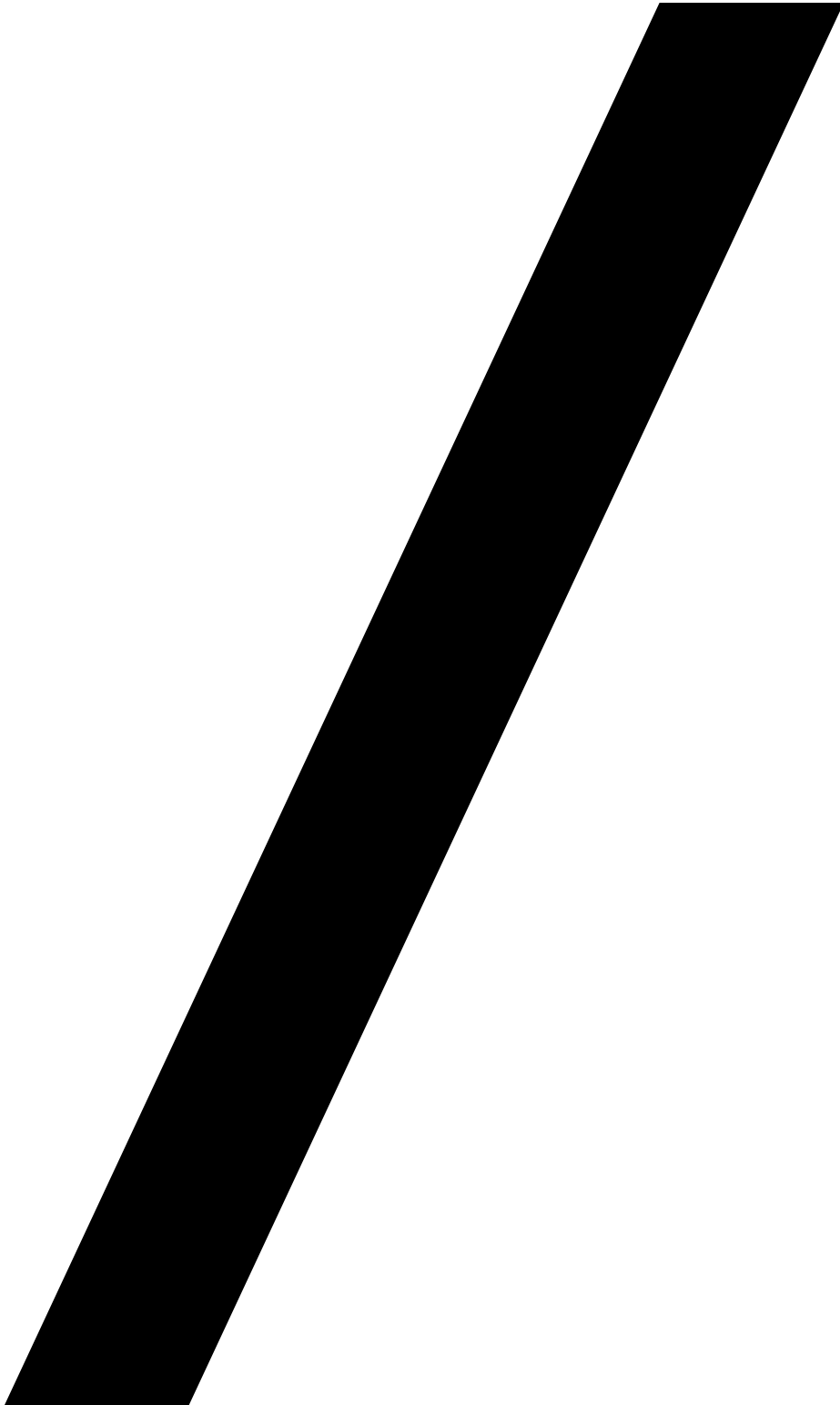
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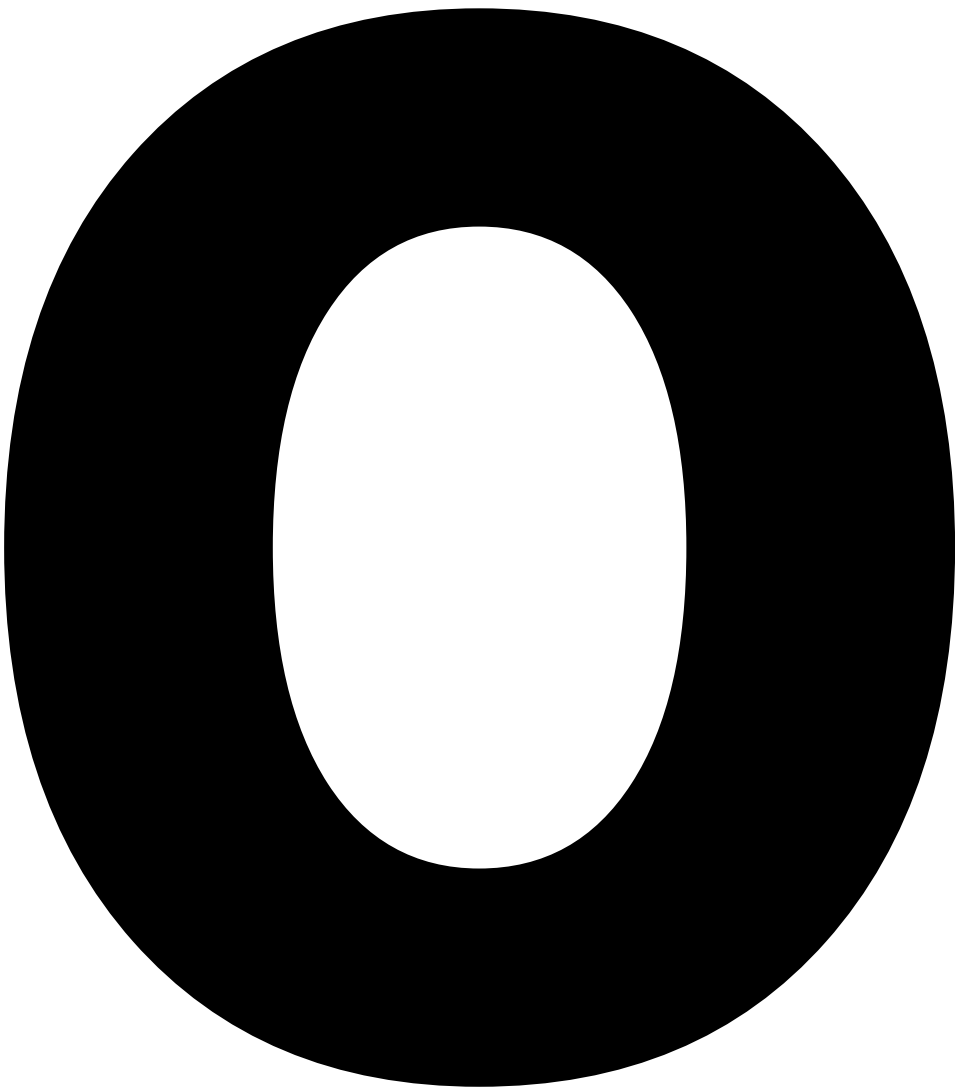




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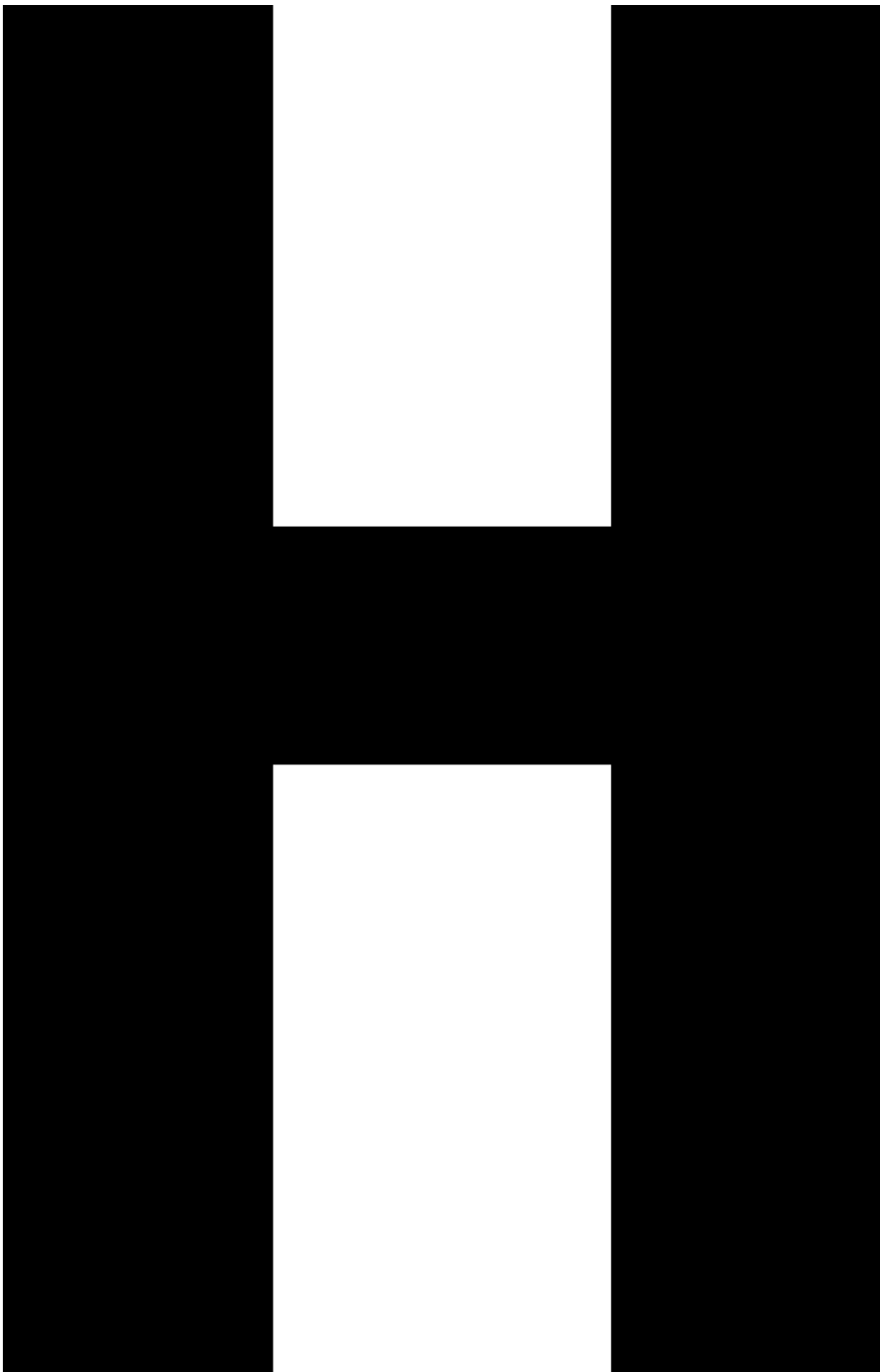
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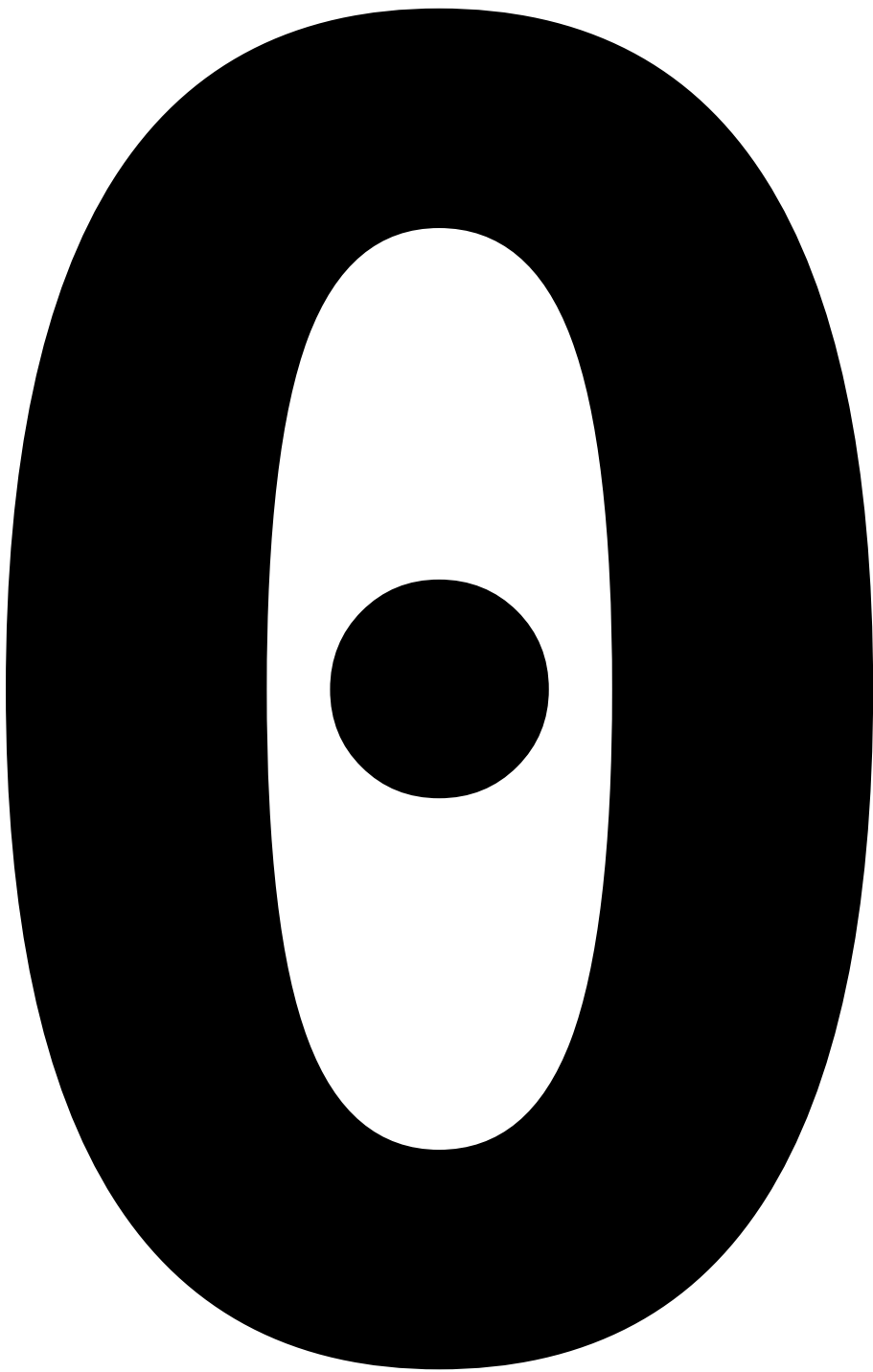
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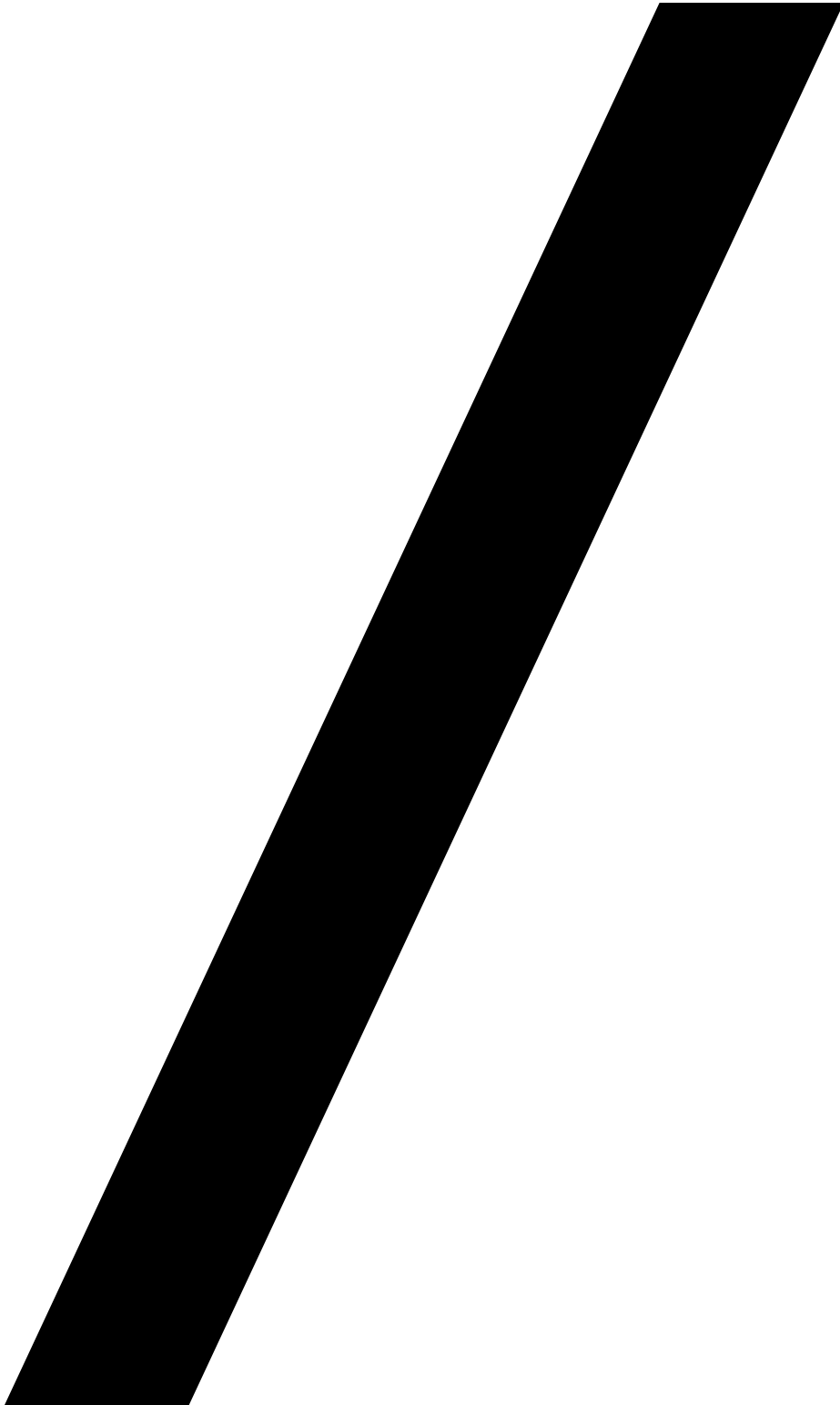
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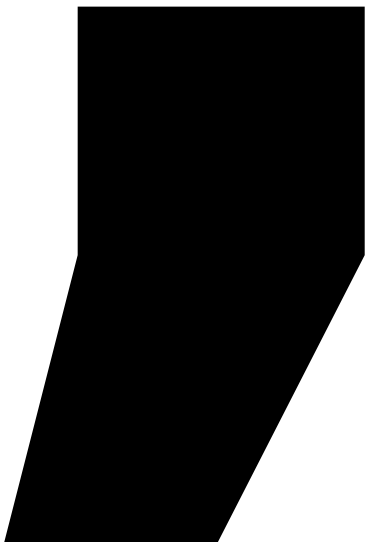
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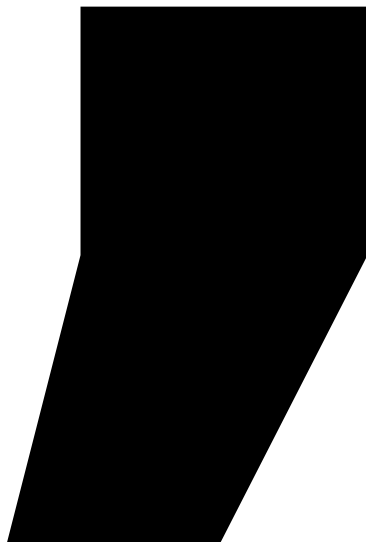
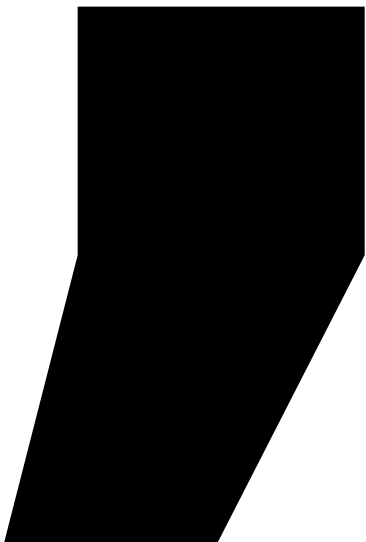




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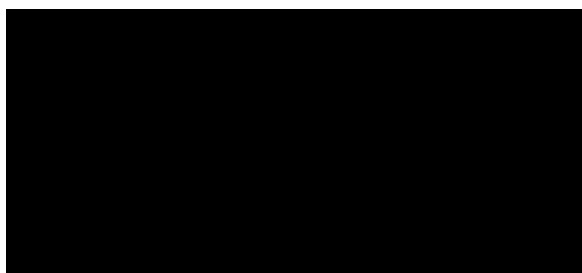


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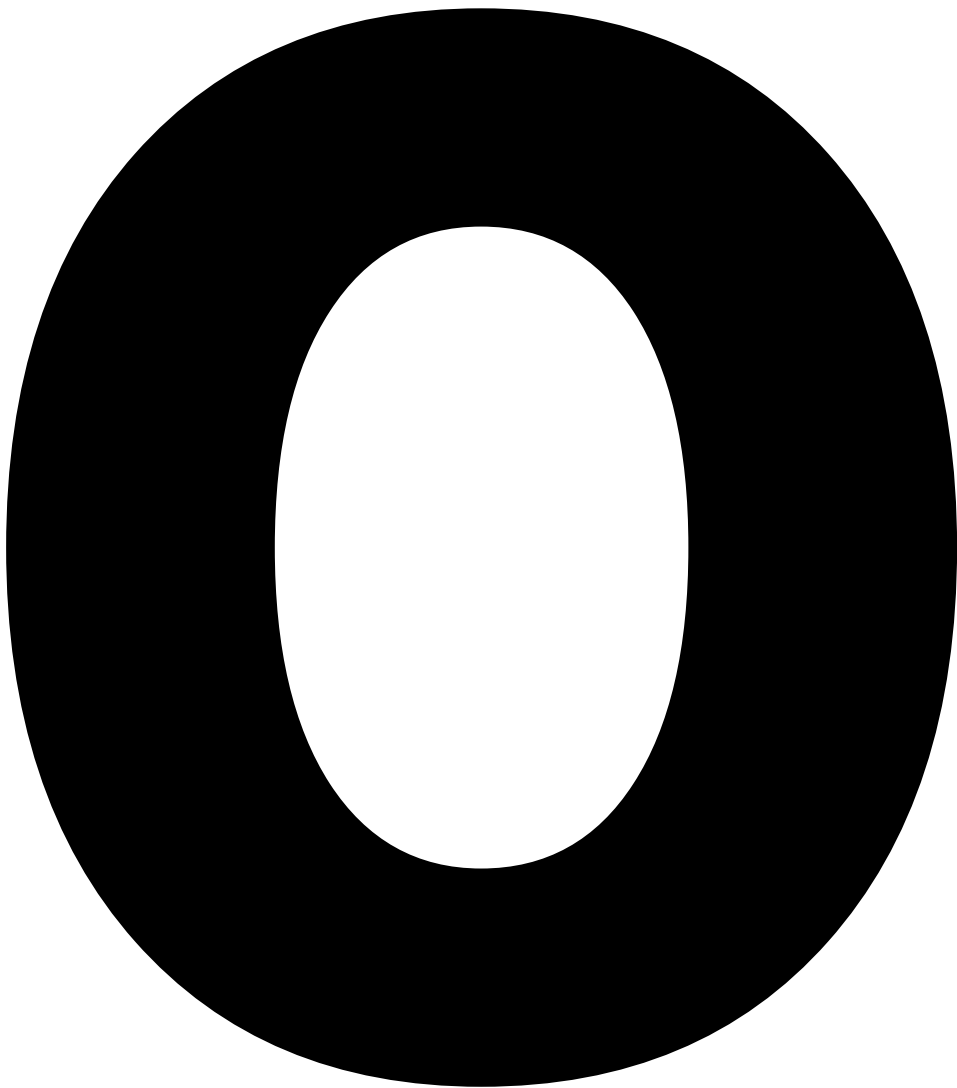


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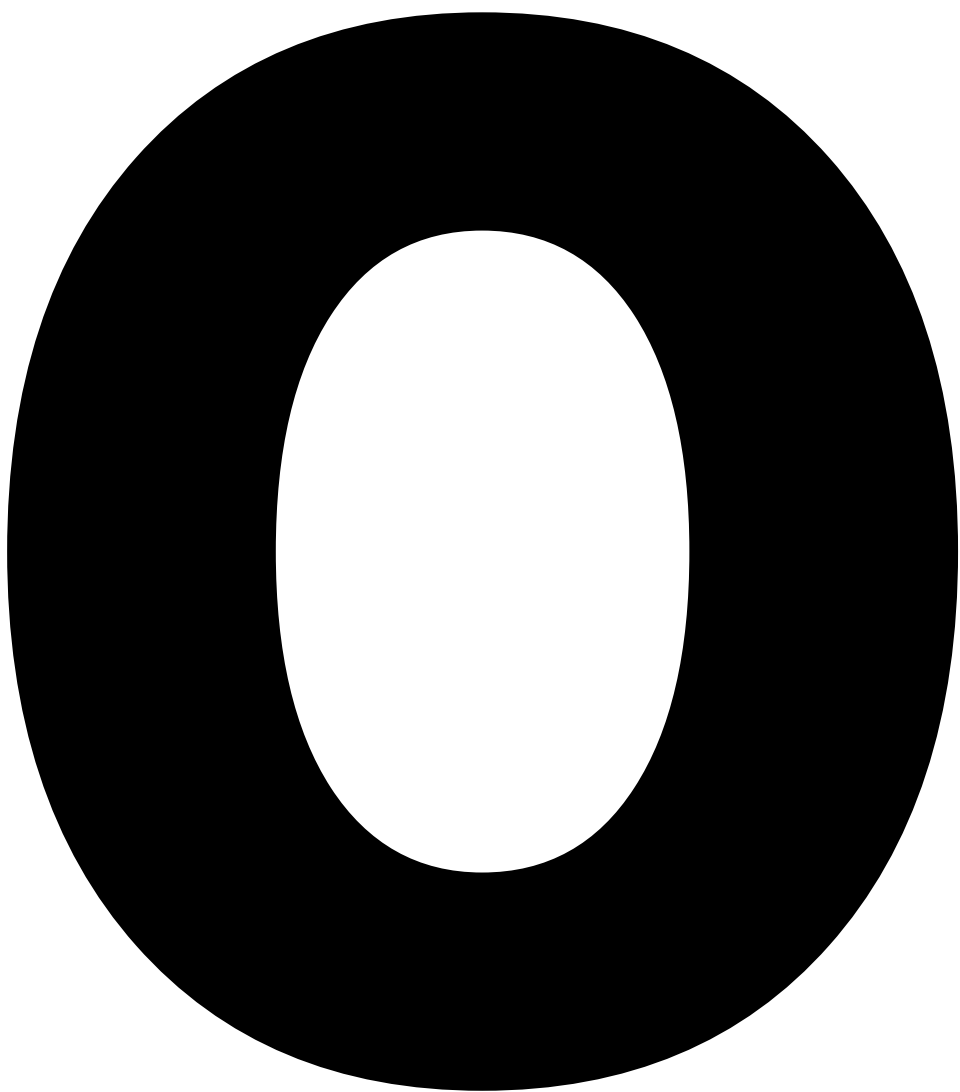
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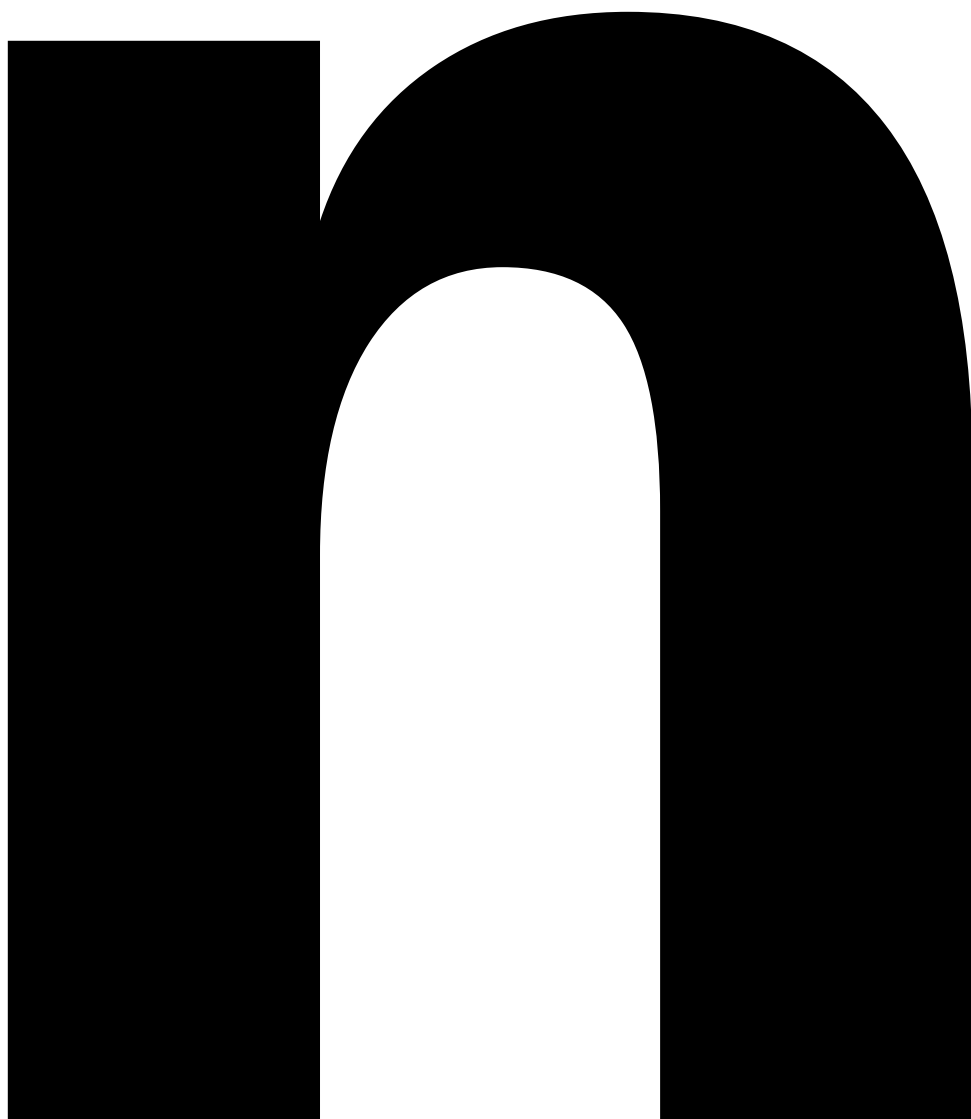
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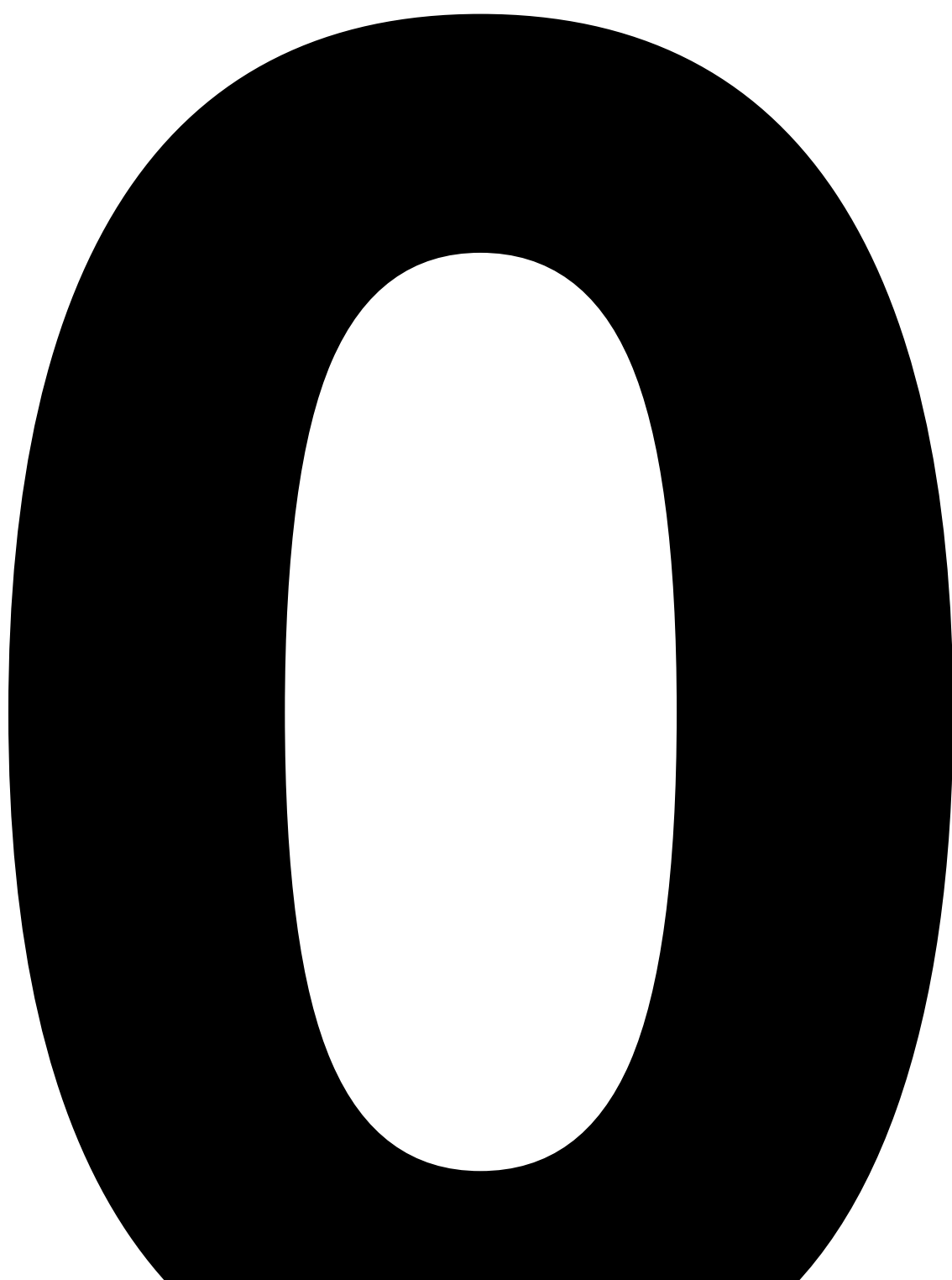


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